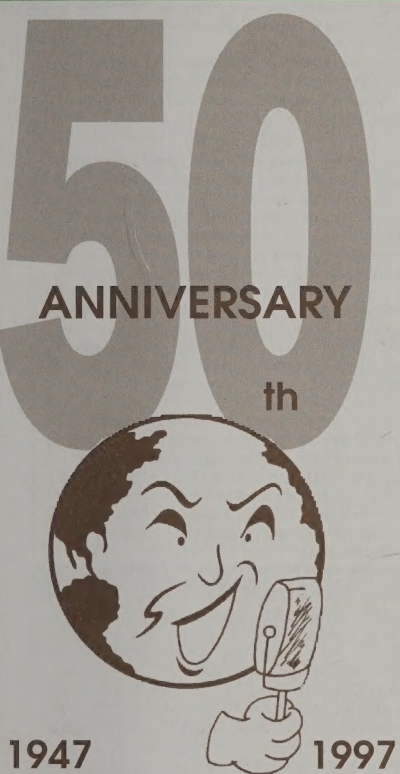
WORLD'S FINEST

ELECTRONIC SURPLUS



CATALOG WS-97-2

MANY NEW ITEMS

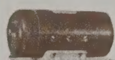
CHECK EVERY PAGE!

Command Transmitter

BC-459A TRANSMITTER, part of World War II SCR-274 aircraft radio set covering 7 to 9.1 MHz at 40 watts CW, 15 W phone. Uses 1629 "eye" tube for tuning and crystal calibration plus tubes 1626 and two 1625's. Requires 575-600 VDC 175-200 ma and 24 V supplied from DM-33 dynamotor on BC-456 modulator described below. May be aluminum or black. Mount rack not available. 5x17x12, 17 lbs sh. UNUSED in original box, $85.00 SOLD OUT

BC-456A MODULATOR, provides audio frequency requirements and holds DM-33 dynamotor (not included) for BC-459A and other SCR-274 xmitters. With tubes 0D3, 12J5 and 1625; aluminum finish. Uses two each PL-152 and PL-153/A plugs listed below. 7x8x10, 12 lbs sh. UNUSED in original box, $45. SOLD OUT PL-153A plugs, $5 each

CD-532 CABLE, 48" with two PL-152 plugs, $12.00



DM-33 DYNAMOTOR mounts on BC-456 and MD-7/ARC-5 modulators to provide power for SCR-274/ARC-5 xmitters from 28 VDC 5 amp input. 6.5x3.5" dia, 8 lbs sh. USED-checked, $27.50

+ +

SCHEMATICS for SCR-274/ARC-5 receivers, transmitters or modulators, $2.00 each

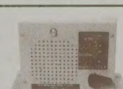
MC-211 RIGHT ANGLE ADAPTER for MC-215 spline tune cable (not available) for SCR-274/ARC-5 Rx, $6.

RU-18 Receiver Set

Early World War II Navy TRF set uses nine plug-in coils to cover 195 to 13575 KHz. Has tubes 2/78, 2/77 and 38233 and requires 12 VDC to power separate dynamotor supply. We have limited supply of COMPLETE SETS with coils D, E, H, K, LN, OM, OP QF, QG, Local & Remote Control boxes, Junction box, Dynamotor supply, Test Meter, shock-mount and plugs in ORIGINAL crates! 98 lbs sh. UNUSED, $450. SOLD OUT MANUAL, partial repro, $12.00

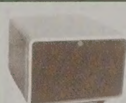
MC-124 SPLINE TUNE SHAFT for RU, 20", $10.00

INTERCOM BOX



LS-147F INTERCOM STATION, solid-state units provide two-way audio for upto seven locations. Has 3.5" dia speaker in aluminum box with Push-to-Talk lever and Send-Receive controls for adjusting level of 4 watts-max-output. Two spring-loaded terminals on back for 2-wire hook-up; requires 115 VAC 60 Hz. 5.8x7.3x3.5 with 9.3"W bottom mount flange; 6 lbs sh. USED, $22.

Collins 516F2

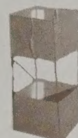


COLLINS 516F2 AC POWER SUPPLY for 32S and KWM-Series transmitters; usable with or without 30L1 power amp. Complete with cabinet, 5U4 & 5R4 tubes (or =) and cable. Military surplus; not "excellent" looking. Requires 115/230 VAC 50-400 Hz; 10x7.5x11, 33 lbs sh. USED-REPARABLE, 516F2 "winged" label, $149.50 SOLD OUT

516F-2 "round" label, $159.50

"LIFTING BODY" Balloon

Distress-orange inflatable "manta ray" shaped balloon measures about 8 feet nose-to-tail, wing-tip-to-wing-tip; 3 feet at thickest. Intended to be helium-filled to raise a wire antenna for air-sea rescue transmitter. Slight breeze lifts it much easier than round balloon even when air-filled. Nice experimental or promotional item; 3 lbs sh. #SEB-42-ALV, unused, $25.00



BOX KITE also used for lifting wire antenna; has 15"Wx12"H distress orange plastic poly-vinyl panels on metal frame. Stands overall 36"H x 15" square; sturdy frame can be re-covered with silk or similar light fabric. Includes panel repair kit; 3 lbs sh. #SEB-42ABK, unused, $24.00

Antenna - Tether Wire

306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs sh. #SEB-400X3, unused, $12.95

Ground Plane Base

MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21--24 or MS-116--118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155). 13"H x 5"W x 5"D, 5 lbs sh. USED, $29.95

AB-21,-22,--23,-24 mast sections, USED, $3.25 each

MS-116,-117,-118 MAST SECTIONS, used, $3.50 ea

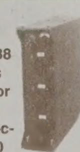
H-P Tracking Generator

HEWLETT-PACKARD 8443A TRACKING GENERATOR-COUNTER, designed for use with 141T/ 8553A 0.1-110 MHz spectrum analyzer. Allows analyzer resolution to +/- 10 Hz, swept insertion & return loss measurements plus reads marker frequency generated on analyzer's CRT. Also functions 120 MHz freq-counter with 7-digit readout. Amplitude <-120 to +10 dBm in 10 and 1 db steps. Resolution: 1 KHz (1 ms), 100 Hz (10 ms), 10 Hz (100 ms). 50 ohm input imped. Requires 100-120/220-240 VAC 48-440 Hz; 3.5x16.8x18.4, 31 lbs sh. USED-REPARABLE, $250.00

Battery Box

CY-7733/PRC-74 vinyl-plastic box clips to bottom of RT-794*/PRC-74 backpack transceiver; holds two non-rechargeable BA-386 or 4386's or other battery pack to provide 24 VDC. Connections for external power for battery charger. 7x12x4.5, 5 lbs sh. UNUSED, $35.00 SOLD OUT

Bandpass Filter



F-1482/GRC BANDPASS FILTER, three 30-88 MHz tunable helical cavities with dial locks and 1.5" dia 0-60 Watt meter; switch for 6 or 60 W Phase, Reflected or Forward W. BNC output connection; special RF input connection. Rugged military design; 8.8x2.5 x9, 10 lbs sh. GOV'T-RECONDITIONED, $39.50

ORDERING INFORMATION
SEE PAGES 26 & 37

MINIMUM ORDER $10.00 + SHIPPING

Fair Radio Sales Co.

P.O. Box 1105 • 1016 E. Eureka St. • Lima, Ohio 45802

419-223-2196/227-6573 • 24 Hr. FAX 419-227-1313

E-MAIL: fairadio@alpha.wcoil.com HOMEPAGE: http://alpha.wcoil.com/~fairadio/

CATALOG INFORMATION

Next catalog WS-98-1 will be sent in Spring, 1998.

ENCLOSURE BOXES

Original electronics removed making these "ripe" for your projects! Black aluminum with handles; no chassis.
#IFPC-ENC, 0.1" thick front panel has 2x24 2.3"H ventilating slots; rear has four 3" dia holes for fans. 7.8"Hx12.8"Wx12.8"D, 11 lbs sh. $19.95
#CAP-ENC, lighter gauge than above; box has no cuts. 7.8"x10"Wx11"D with 10x13 bottom mount plate; 6 lbs sh. $17.95

#ANT-ENC, front cut-outs for three connectors plus ventilation holes; rear also ventilated. 7"x4.5"x9.5"D, 3 lbs sh. $7.50

#LNA-EXC, 2.5x6.5x7.5 on 0.3" thick 7.5x7.5 aluminum plate. Front cut-outs for outlets & RF or similar connectors, 3 lbs. $7.95

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#CS-TS382 TRANSIT CASE, o/a 15x19 x15.5; space without removal of spacers 10x18.8x12.8. Not hinged; hasp fastners. Aluminum; 35 lbs. USED, $22.

6-Fan Panel

17.3"W X 10.5" panel frame has six high output Torin TA450S (or equal) 4.6" square 5-blade metal-framed fans. Each fan rated 65 CFM and requires 115 VAC 50-60 Hz 0.11 amps; 12 lbs sh. #6F-PNL, used-excellent, $45. #TA450S (or =) FAN only, $9.95

ROTRON MUFFIN* XL MD24B2 4.6" square fan rated 110 CFM @ 24 VDC. Works over 8-28 VDC; CFM varies proportionally to voltage. 3-feathered blades in metal frame. Mounted to aluminum plate w/ grill guards. 3 lbs sh. #DA1116-MD24, unused, $14.95

MICRO-BOXER* FAN, 12 VDC 0.13 A 2.4" sq X 1" plastic frame; 12 CFM. #2410NL-04W-B30, used, $7.

Rotary Inverter

Old aircraft-style producing 115 VAC 400 Hz 1 phase 1500 VA output from 25-28 VDC 92 amps input. Leland mfg; 9.3x17x7.3, 54 lbs sh. #R-INV1500-1, UNUSED, $49.50
#PU-16/AP INVERTER, like above except 750 VA out from 28 VDC 60 A in; 9.3x16.5x7, 40 lbs. $37.

850-895 MHz Modules

Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:

MILCOM 850-900 MHz POWER AMP, no specific data, but estimated 10 W power out using MRF-897 transistor; has heatsink top. SMA input-output connections; 3x8.5x2, 4 lbs. #MIL-850-10PA, $49.50

CELWAVE 6-SECTION DUPLEXER for 850 MHz receive and 895 MHz trans mit frequencies; SMA connections. 4x 4.5x2.4, 2 lbs sh. #CEL-85095-DP, $19.95

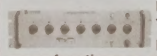
DITCOM MICROWAVE DF-2575 CIRCULATOR for 850-895 Mhz; 500 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. $29.95

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No info; 1.9x1.9x1. $24.95

4-CAVITY FILTER for 850 MHz; machined aluminum with 2- SMA connections. 2x5.7x1.4, 2 lbs. #4C-850M, $19.95

MILCOM 2-WAY COMBINER for 800 MHz, 2- SMA female & 1- male connections; 1.8x2.8x2, 2 lbs. #240-089, $19.95

HF Pre-Post Selector



RF-551A PRE-POST SELECTOR highly selective bandpass filter for 2-29.999 Mhz range functions as preselector for enhancing receiver signal reception or as post selector for reducing exciter output noise when used with 6 db pad (not supplied). 5-decade freq-control knobs & Hi-Lo Gain switch; N conn. Requires 115/230 VAC 47-420 Hz; 5.3x19x20, 36 lbs. USED-excellent, $350. MANUAL for RF-551, partial repro, $20.00

RF-1310 HF Exciter

HARRIS RF-1310 HF EXCITER, microprocessor controlled set produces 100 mw RF output over 0.4 to 29.9999 Mhz AM-USB-LSB-CW in 10 Hz increments; provision for 100 preset channels. LED readouts & push button entry of frequency & function + signal meter. Stability 1 pp 10 MM /day using internal 1 MHz standard. Requires 115/ 230 VAC 48-63 Hz; 7.5x19x22, 45 lbs sh. USED-EXC, $1495.00

1 KW Power Amp

RF-110A/RF-124 POWER AMP SET, "lazily" amplifies output of RF-1310, T-827, RT-618 and similar exciters to 1000 watts PEP SSB-AM using two 4CX1500B tubes driven by two 8122's. Output adjustable down to 10 W. Frequency selection of 2-30 Mhz in 19 bands or automatic for RF1310. RF-124 POWER SUPPLY powers RF-110A from 230 VAC 50-60 Hz 1 phase 20 amp input. W/ interconnect plugs (not wired) & system operator's manual. RF110A: 12.4x17.4 x20, 95 lbs. RF124: 12.3x17.4x19, 175 lbs. USED-EXC not-tested $1795

+ +

RF-130AR TRANSMITTER SET, consists of RF-1310 exciter, RF-110A amp & RF-124 supply described with Operator's Manual (no schematics), $2750.00

+ +

PP-3916 230 VAC 50/60 Hz 3-PHASE SUPPLY for above or URT-23. Output 2250 VDC 1.2 amps, 500 VDC 900 ma, 115 VAC 60 Hz 185 W, 115 VAC 400 Hz 70 W. 7.1x17.4x19.9, 160 lbs sh. USED, $165.
RF-601 A/C COUPLER CONTROL, powers and con trols signals Manual-Silent-Auto to RF-601A 1 KW antenna coupler or CU-938/URA-38. Has 2.5"dia meters and circuit cards; no interconnect plugs. Requires 115 VAC 48-63; 5.2x19x8.7, 25 lbs. $125.

RF-1051B HF Receiver

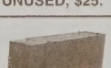
R-1051B SYNTHESIZED RECEIVER, covers 2-29.9999 Mhz AM-CW-LSB-USB-ISB using six decade band tuning to 100 Hz + vernier for continuous tune; 500 Khz IF. Meters and controls for LSB & USB Levels; also BFO, 600 ohm audio & 50 ohm input. Stable shipboard de-sign; solid-state except 3 tubes. Requires 115 VAC 48-450 Hz; 7x17.4x18.9, 85 lbs. Used-CHECKED, $350.

+ +

R-1051G RECEIVER, later version of above with IC-circuitry in synthesizer. USED-CHECKED, $650. MANUALS for R-1051B or -F, partial repros, $45 ea.

MT-3114 SHOCK & VIBRATION MOUNT for R-1051, RT-618, AM-3007 and similar Navy radios. 19.8"Wx16.5"D top & bottom aluminum platforms w/ four large rubber piston shock absorbers good for 200 lbs; Barrymount*; 16 lbs sh. UNUSED, $25.

He-Ne Laser



HELIEM NEON LASER with internal power supply. Operates from 10-14 VDC 900 MA input; output 1250 VDC 4 ma. Beam wavelength 633 mm. In 6.4x2.3x1.3 plastic case, 2 lbs. #LZR-993, used-CHECKED, $45.

STORE HOURS:

9 A.M. TO 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS: PRICES NET, F.O.B. LIMA, OHIO SEND MONEY ORDER, CERTIFIED CHECK, VISA, MASTER CARD, OR DISCOVER with PURCHASE ORDER for IMMEDIATE SERVICE.
We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER $10.00 + SHIPPING COST
Include sufficient money for shipping charges. (UNUSED-PAYMENTS RETURNED AT ONCE.) Otherwise we will hold order & advise charges.

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Order, Warranty and Return Policy on page 38!

DESCRIPTIONS

All material offered in this catalog is in "Used-Complete" condition, unless qualified and/ or noted as "Reconditioned", "Unused," or "New." Merchandise is not operationally checked unless specified as "Checked."
Equipment described as "Reparable"--meaning "able to be repaired"-- is electro-mechanically complete, but requires some trouble-shooting by the customer.

DISCLAIMER

Items in this catalog are "used" and/ or "obsolete" equipment which may not conform to current federal and state laws with regard to use as governed by the Federal Communications Commission FCC) the Environmental Protection Agency (EPA), the Occupational Safety and Health Agency (OSHA) and other federal & state governmental agencies.

Furthermore, many items in this catalog have potential to produce harmful and even lethal electrical voltages. Proper and safe use and disposal of any item purchased is the customer's sole responsibility.

The customer assumes all liability and holds Fair Radio Sales Co., Inc. harmless for compliance to current and future laws pertaining to the use and possession of equipment purchased, for any personal injury liability arising from improper and unsafe use of purchased equipment, and for any property damage caused directly or indirectly by equipment use.

0-40 VDC 3 A Lambda

LAMBDA #LP-532-FM REGULATED POWER SUPPLY, metered output 0-40 VDC 3 amps max from 105-132 VAC 47-440 Hz input. Has meters 0-40 VDC and 0-5 amps DC, front panel adjust Output Voltage and Current Limit; also red-white-black terminal posts. 5x8.3x16, 26 lbs sh. USED, $165.00
LAMBDA #LT-803, 0-36 VDC 34 amps max; similar style to above but digital readout. USED, $350.00

Hardline Coax

MINI-FLEXIBLE HARDLINE COAX CABLE, Belden 1573A (RG-402 50 ohm) with SMA connectors. M =male, F =female, RA =right angle

#507-169/170A, two M, 5" Length,	$9.00
#507-171A, M-RA to M, 4.3" L,	$10.00
#507-173A, M-RA to M, 11.5" L,	$11.00
#507-175A, M to F N-chassis conn, 8"L,	$12.00
#507-176A, two M-RA, 3.1"L,	$12.50

0.5" dia FLEXIBLE HARDLINE (Cablewave 16733) with male N-connections (1-right angle); Various lengths as noted; 5 lbs sh. #HDL-16733- (length):

3 feet, $15.	6 ft, $18.	10 ft, $22.
12 ft, $24.	15 ft, $30.	22 ft, $40.

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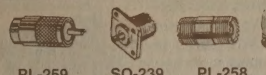
TAPE CABLE, 7-conductor #22 AWG vinyl-covered color-coded 0.8"W flat in-line style; 300 V max. 100 ft roll; 3 lbs. Brand-Rex #TC-1073-7, NEW, $16.

NEW Coax Connectors



PL-259 $1.10 each 10 for $10. — SO-239 $1.10 each 10 for $10. — PL-258 $1.75 ea 10 for $16. — #BP-NC Terminal Post, nylon cap, spring-loaded 1.8"H, $.75

#SO-239AG Ag-plate, $1.25 each — #SH-SO239 barrel mt. $.85 each — #2H-SO239 2-hole mt. $.85 each

UG-175, adapts PL-259 to RG-58 coax, $.35 each
UG-176, adapts PL-259 to RG-59 coax, $.35 each
M-359 ELBOW, PL-259 to SO-239, used, $1.25 ea

+ +

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptable, (r/a) right angle; (U) = Used, (Un) = Unused.

TYPE BNC: UG-88m (RG-58) U $.75 ea
UG-260 m (RG-59) U $.60 — UG-290 f panel U $1.
-274 "T" 2-f to m, U $4. — -909 bulk U $1.
-273 to UHF, Un $2.00 — -306 R/A adapter, used, $1.75
-282 to post $1.50
UG-913 r/a U $1.25 — -255 UHF-BNC $3.

TYPE N: UG-21 m (RG-8) NEW, $4.00
UG-58 f chassis U $2.50 — UG-27 R/A m-f U $2.
-536 m (RG-58) U $2.
-593 f bulkhead for R-59-62, used $1.50
-1052 f bulkhead for RG-58, used, $1.50
-201 ADAPTER, N to BNC, used, $2.50

TYPE TNC: Gremar #6000 (m) used, $1.50 ea
#6177 m R/A Un $3. — #6098 to N f bulk U $3.
HN: UG-59 U, $5.00 — UG-920 m-f R/A, $6.
UG-100 m U $1.50 DA-113 dummy U $5.00
-109 f/ UG-100 $1.50 UG-59 HN m f/RG8, U $4.

Mini-BNC p/o R-390A, used, $1.50 each
Mini-BNC chassis-type p/o R-390A, used, $1.50

COAXIAL CABLE

New manufacture and branded with standard-type numbers to MIL-R-17A specifications. Prices ar PER FOOT for lengths indicated. In between lengths, use higher price. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE!

COAX	Ohms	100 ft	500 ft	l000 ft	5000 ft
RG-8/U	52	.32	.29	.275	.265
RG-58	53.5	.17	.16	.15	.15

+ +

HARDLINE COAX, 3/8" dia aluminum jacket, foam insulated. 3/32" dia solid copper wire: #HLCX-3/8, $.75/ft; 100 ft/$60. 500 ft/$225.

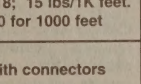
+ +

ESSEX 21-597 SUB-MINAX COAX, thin 0.15" outer diameter (0.1" O.D. core) for making RF jumpers etc. 75 ohm impedance; polyethylene insulaton, 93% shield. Similar to Belden 8218; 15 lbs/1K feet. UNUSED, $12 for 100 feet; $95.00 for 1000 feet

COAX CABLES with connectors

from military equipment. USED/UNUSED:
#CG-530 CABLE, 54" RG-62 W/ 2 UG-260 BNC, $3.
RG-213-1, 16" RG-213 coax w/ R/A N conn. $5.
RG-214-3, 3 feet RG-214 coax with N conn. $7.50
CG-3444, 42" RG-214 w/ 2 UG-573 "C" conn., $9.
31-224 BNC TWIN-Ax, 1-conn on 50" cable, $3.
A303386-5, 15 feet RG-223 w/ male TNC conn. $5.
A303389-3, 6.5" SMA jumper w/ SMA conn., $4.
A303892-10, SMA (m): TNC (f) 8" jumper; $4.50
CG-357, 50 feet RG-59 w/ male & female "N", $4.

INSTRUMENT TEST LEADS



for meters, etc. One end has 5.2" L plastic prod; other end tinned wire. Military-quality; heavy insulation; o/a 36"L. One red & one black lead /set; 1 lb. #TS-LRB, $2.50

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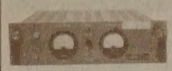
COMPUTER CONTROL CABLE with male DB-25 connector on one end, female on other; all pins wired. #24 AWG 300 V wire in gray PVC jacket. 25 ft long; 4 lbs. Paradyne #835-3564-2511, NEW, $14.95

DC Power Supplies



PP-3929A/FLR-9 DC POWER SUPPLY with outputs -12 VDC 8 amps and +12 VDC 2 amps. Has 3.5" dia meters 0-15 VDC and 0-12 AMP DC, switch for Output Select +10/-10 VDC and Voltage Adjust trimmer, Terminal strip on rear; mating connectors not availabe. Solid-state; requires 115 VAC 48-63 Hz. 4.8x19x18, 46 lbs sh. USED-REPARABLE, $35.00

28 VDC SUPPLY

Heavy-duty transformer type modular supplies trimpot adjustable outputs; 115/230 VAC input:
DELTRON #Q28-3.I , 28 VDC out @ approx 3 amps. Current limit set at 8 amps but runs very hot to maintain 28 VDC. 7x4.8x2.8, 10 lbs. NEW, ~~$24~~. $20
DELTRON #QD12/15-3, similar to above but +/-12 to 15 VDC 3 amps out; 9x4.9x3.1, 9 lbs. NEW, $19.00
POWER ONE #CP366A DUAL SUPPLY, +24 VDC 3 amps w/ current limit adjust and +12 V 2 A output. 5x6.8x4.8, 11 lbs sh. NEW, ~~$28.95~~ $22.95

5 VDC Supplies

AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW, $15.

+ +

EXELON DC REGULATED SUPPLY, 5 VDC 3 amp and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. 5x5.3x2.8, 4 lbs. #PS-1545, NEW, $10.

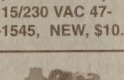
10 VDC 15 amps

DC POWER SUPPLY provides 10 VDC 15 amp and 4.5 VDC 3.5A outputs from 100 to 127 VAC 60 Hz input. Wire output in series for 14.5 VDC at 3.5A. 7x12x4.5, 17 lbs. #PX-2939, NEW, $14.95

Small Tool Supply

DC POWER SUPPLY designed for small tool rated 12 VDC @ 1.5 amp under inductive load like a motor. Output > 20 VDC under lesser loads; can be varied somewhat depending on load. With 6 ft AC cord; requires 115 VAC 60 Hz; 2.5x2.5x5, 3#. #DR-12VPS, NEW $10.95

Coleco Supply



COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, ~~$12.95~~ $10

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POWER SUPPLY MODULE with 3-conductor cord, fuse, 110/115 V input switch and 50% Voltage switch. Outputs: 18 V 350 ma & 30 VCT 600 ma; 50% switch, 9 V 350 ma & 15 VCT 600 ma. 6x4x2.3, 4 lbs. #PSM-4404-87AD, used, $3.75

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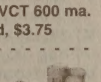

+5/-5 V 3 AMP REGULATOR BOARD, up to 24 VDC unregulated. Capacitors two 15000 mf 15 V, 33000 mf 30 V. Two each KBPC rectifiers, 2N6576, 2N4441 SCR. Regulators fixed; sealed PC boards replaceable. 7.8x6x4; 3 lbs sh. #MEND-REG-5V, ~~$6.50~~ $5.

HV DC Converter

DC CONVERTER p/o CRT HV module; input 5-15 VDC 100 ma; output 4.5 to 13.5 KV. Also 135-402 V & 70-90 VDC. Potted; Use in experiments or in "bug zapper." 3.2x4.2x1.4, 3 lbs. #ULC-14-07C, NEW, $12.95

TECHNICAL MANUALS

TERMS: All manuals include maintenance info & schematic unless noted otherwise:
O.I.= Operating info only. N.S.= no schematic
Repro= partial reproduction w/ theory, maintenance info & schematic.

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AM-65 5.00 AM-598 4.00
AN/APR-4 repro 12.00
AN/ARC-38-38A repro 20.
AN/ARC-60 (R-19/CV-431) repro 10.00
AN/ARC-73 repro 20.00
AN/ARN-30 repro 10.00
AN/ARR-52 repro 17.00
AN/ART-13 repro 12.00
AN/CRT-3 repro 10.00
AN/GRC-3–8 12.00
AN/GRC-9 12.00
AN/GRC-10 12.00
AN/GRC-106A repro 40.00
AN/GRC-109 repro 12.00
AN/GRC-165 repro 25.00
AN/GRR-5 7.50
AN/PRC-6 7.50
AN/PRC-8-9-10 repro 10.
AN/PRC-9A-10A repro 10.
AN/PRC-25 repro 20.00
AN/PRC-47 repro 25.00
AN/PRC-74B repro 25.00
AN/PRC-77 repro 20.00
AN/PRR-9/PRT-4 repro 15.
AN/TRC-1 (T-14, R-19, & AM-8) repro 20.00
AN/TRC-24 20.00
AN/TRC-75 repro 100.00
AN/TRC-77 repro 15.00
AN/UPM-84 repro 15.00
UPM-84A O.I. repro 8.50
AN/URC-68 repro 15.00
AN/URM-25D repro 10.00
AN/URM-25F repro 10.00
AN/URM-26B repro 12.00
AN/URM-127 repro 10.00
AN/USM-117 repro l5.00
AN/USM-140 repro 17.00
AN/USM-281A repro 25.00
AN/USM-281C (Tektronix 7603N11S) repro 25.00
AN/USM-425V repro 25.
AN/VRC-7 repro 12.00
AN/VRC-8-9-10 repro 12.
AN/VRC-13--15 10.
ARC TYPE 12 (R-10-11-15-19, T-11-13) repro 12.00
BC-191 or BC-375 7.50
BC-AS-229 repro 8.50
BC-221 most models 10.
BC-312-342 repro 10.00
BC-348 J-N-Q or K-L-R or M-0-P repro l0.00
BC-603/604 repro 12.00
BC-610/939 repro 15.00
BC-611/SCR536 repro 12.
BC-620 repro 12.00
BC-624/625 repro 15.00
BC-652/653 (SCR-506) 12.
BC-659 (SCR-609/610) 12.
BC-669 repro 10.00
BC-683/684 repro 12.00
BC-779/1004 repro 12.00
BC-1000/SCR300A 12.00
BC-1335 repro l0.00

CU-872 repro 8.50
CU-1658 (COL 490T1) 20.
CV-157 repro 20.00
CV-591 (MSR-4) repro 10.
CV-1758/UR repro 10.00
CV-1982/TSC26 repro 10.
EE-8 repro 8.50
I-142/PRM-6 10.00
I-177 repro 8.50
ME-6D repro 8.50
ME-26 repro 8.50
ME-30 repro 8.50
ME-71 repro 8.50
MN-26 8.50
OS-8 A or C repro l0.00
PP-109-112 5.00
PP-281-282-484 repro 5.
PP-2352 repro 10.00
PP-4763 repro 10.00
R-105/ARR-15 repro 15.
R-108-109-110 7.50
R-140 (HRO-5) repro 10.
R-220/URR-29 repro 17.
R-274 (SX-73) repro 12.
R-274A-C repro 17.00
R-388 (51J3) repro 12.00
R-389 repro 17.00
R-390 repro 15.00
R-390A repro 15.00
R-391/URR repro 17.00
R-392 repro 15.00
R-484/APR-14 repro 15.
R-520 (MIL-ZENITH TRANSOCEANIC) 10.00
R-648/ARR-41 repro 15.
R-744/PR repro 12.00
R-901/GR repro 12.00
R-1051B repro 45.00
R-l490/GRR-17 repro 40.
R-1518/URR-71 repro 22.
RT-66-67-68 7.50
RT-70 7.50
RU-18/19 repro 8.50
SP-600-JX repro 10.00
SX-28 repro 8.50
6l8T1-2 Collins repro 35.
T-195/GRC-19 20.00
T-278-416 7.50
T-368 O.I. repro 8.50
T-368/TN-339 repro 15.
TCS-12 repro 12.00
TS-352/ME-9 repro 8.50
TS-382 repro 10.00
TS-403/URM-61 repro 12.
TS-510/USM-44 repro 12.
TV-2, - 7, or 10A: $10. ea
ZM-11 repro 8.50
ZM-30/URM-90 repro 10.

+ +

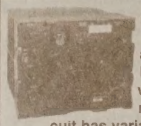
TEKTRONIX repros:
$8.50 ea: G, H, W, 130, 131, 132
$15. ea: 1A1, 1A2, 1A5
$17. ea: 1A4, 545A, 545B, 547
453 $25. 475 $30.

AN/ARC-5 BENCH TEST & ALIGNMENT, info to align R-23A, R-l48, R-25-26-27 receivers; T-18 thru T-22 xmitters; MD-7 mod, W / diagrams; repro. $8.50

MID-RANGE SPEAKER DRIVER

rated 50 watt 11 ohms, 1 to 14 KHz response. Heavy duty (4 lbs net) in sealed metal casting. Throat size: 1-3/8" dia x 18 threads per inch. O/a 3.1"Hx4.1"dia. USED: #SP-DR-WR50, $19.95

RT-68/GRC Rx-Tx



RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmiter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh. USED, $85.00
RT-66, like RT-68, execpt 20-28 MHz. $75.00

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. 7.3x9x13, 39 lbs sh. USED, $18.
GOV'T-RECONDITIONED, $35.00
PP-109 SUPPLY, 12 VDC 12 A input. USED, $24.
CX-1211 INTERCONNECT CABLE, RT: PP units, $9.

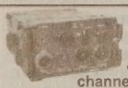
VRC-10 Radio Set

AN/VRC-10 used in 1950's-1960's military vehicles. Consists of "government-reconditioned" RT-68 38-54.9 Mhz FM 15 watt transceiver with PP-112 24 VDC power supply & MT-299 rack. Also "unused" accessories CX-1211 RT-PP interconnect cable, AB-15 mast base, H-113 and H-63 headsets, M-29 mic, LS-166 speaker, GSA-6 chest group, CW-206 antenna bag, CW-330 cover, CG-530 RF cable, hardware & manual. Knob & meters removed by gov't; "used" ones supplied for customer to install. RT & PP paint color may not match. 135 lbs sh.
GOV'T-RECONDITIONED, $245.00

GRC Receivers

R-108/GRC RECEIVER , 20 to 28 MHz-FM continuously tunable with variable squelch; 4.3 MHz I.F. Audio output: 600 ohms. RF input: 50 ohms. With tubes 3/1U4, 2/1L4,1A3, 2/3A4, 1S5, 2/3Q4, 2/6AK5 & 0B2. Requires 135 VDC @ 70 MA. and 6.3 VDC 2 amps. 7.5x9x132; 32 lbs sh. USED, $25. GOV'T-RECONDITIONED, $36.00
R-109 RECEIVER, same as R-108 except 27-39 MHz. USED, $28.00; GOV'T-RECOND, $42.00

Audio Amp



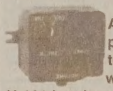
AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70 transceiver; also works as power supply when PP-281 or -282 modular supply is installed inside AM-65. 4.4x8 x13, 17 lbs sh. USED, $22.50; GOV'T-RECOND. $50
PP-281 POWER SUPPLY, allows 12 VDC operation of RT-70/AM-65 or R-108-109-10; 6#. USED, $17.
PP-282 SUPPLY for 24 VDC power, USED, $12.
PLUGS for RT70/AM65 interconnect, used $3. ea
+ +
C-433 REMOTE CONTROL p/o GRA-6 for GRC-3--8 remote & telephone patch; USED, $18.00
C-434 LOCAL CONTROL p/o GRA-6, used, $22.00
C-435 CONTROL for duplex GRC-3--8; used, $15.
+ +
TECH MANUALS, (REPRO = partial reproduction):
RT-196/PRC-6, $7.50 AM-598, $4.00
AN/PRC-8-9-10 or PRC-9A-10A, REPRO, $10. each
RT-66-67-68, $7.50 PP-109-112, $5.00
R-108-109-110, $7.50 AN/GRA-6, $7.50
RT-70/GRC, $7.50 AM-65, $5.00
AN/GRC-3--8, $12.00 AN/VRC-13-15, $7.50
AN/VRC-8-9-10, REPRO $12.00

30-75 MHz FM Radio

RT-524/VRC TRANSCEIVER, standard FM military vehicle radio since 1960's; operates over 30 to 75.95 MHz FM in 50 KHz steps in two bands. Output: 0.5-8 W (LO), 30 W (HI). Has squelch, built-in speaker. Requires 24 VDC 10 amps. Includes MT-1029 mount, power cable and handset. 15.4x6.5 x13.5; 78 lbs sh.
USED-NOT TESTED, $625. RT-524A/VRC, $675.00

AMPLIFIED SPEAKERS

AM-6747/V AMPLIFIED SPEAKER for monitoring audio of R-442, RT-246/524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to AM4979; 5.6x5x3 + 2" top bolt; 6 lbs. UNUSED, $35.00
AM-4979/GRC, similar to AM-6747 except has 6 ft cord with U-229 plug. USED-CHECKED, $30.00
4-PIN POWER CONNECTOR f/ AM-4979-6747, $6.00
+ +
GRC/VRC SPEAKERS, similar style like AM-6747; with 4" dia cone & 600:8 ohm transformer in cast-aluminum case, 5x5x3.3, 5 lbs. USED:
#LS-166 w/ U-77 plug for GRC, $16. UNUSED, $25.
#LS-454 w/ U-229 for PRC-25-77, $18. UNUSED, $28



AM-4949/U AMPLIFIER, a microphone amp in vehicle intercom systems using VRC-12 radios. Usable with M-80 mic, H-189/250 handsets, H-161 headsets or similar. Two connections for U-229 plug, Volume, ON-OFF, and power light. Requires 28 VDC; 4.5x4.5x3, 5 lbs sh. UNUSED, $20.

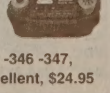
6 METER DIPLEXER

CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network; allows simultaneous use of two transmitters, receivers, or transceiver on a common antenna provided that operating frequencies are slightly offset. Usable over 30-76 MHz FM for use with PRC-25-77 & VRC-12 transceivers; will work commercial 6-meter equip. Has NULL METER, TUNE controls, Fine-Coarse-Monitor MODE Switch and RT1-RT2 BNC connections. Unit may function as man-portable relay terminal. Maximum RF power to each channel: 65 watts continuous. Operational isolation: 45 DB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs. UNUSED, $39.50; MANUAL, $10.

Radio Mounts

MT-1029/VRC VEHICULAR MOUNT for RT-246 & RT-524/VRC -12 transceivers; 5x12.5x16, 19 lbs. USED, $29.50; GOV'T-RECONDITIONED, $45.00
MT-1898/VRC MOUNT for companion R-442 receiver; 5x6x12.3, 15 lbs. USED, $25. RECOND, $32.00
MT-298 MOUNT RACK, holds two RT-66-67-68 & 2-PP-109 -112 (VRQ-1-2-3) 40x5x13, 65#. USED, $35.
MT-299 MOUNT RACK for RT-66-67-68 & PP-109-112 (VRC-8-9-10); 35 lbs sh. UNUSED, $35.00
MT-327 MOUNT holds one RT-66-67-68, one R-108-109-110, one PP-109-112; 32 lbs sh. USED, $20.00

GRC/PRC Battery Test

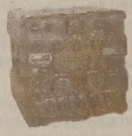


AN/PSM-13 BATTERY TEST SET; checks GRC and PRC-type battery packs BA-270, -279, -376, -377, -4386/398/ PRC-25, -399, and -505. Meter indicates BAD-GOOD (FS=1 MA). With adapters U-240, -241, -314, -315, -346 -347, -410 & canvas case. 7 lbs. USED, excellent, $24.95

BC-1000 Radio Set

BC-1000 BACKPACK TRANSCEIVER SET, WW-2 and Korean War sets from NATO-surplus. 40 to 48 MHz FM range in forty-one 200 KHz steps. Power output: 300 MW RF, 200 MW AF. Built-in 43 MHz cystal calibrator. Tubes 1A3, 5/1L4, 3/1S5, 6/1T4, 1R5, two 3A4. Requires 4.5 VDC 500 ma & 90 VDC 25 ma. Non-English markings; non-working. With CS-128 battery box & SCR-300A manual; 5.6x 11.3x14.4, 28 lbs. #BC-1000-EUR, used, $99.50
ACCESSORIES for BC-1000 with purchase:
AN-130 WHIP ANTENNA, used, $20.00
AN-131 ANTENNA, 8-section; sections may need re-strung and/or top cap missing. USED, $17.50
H-94 HANDSET or = (similar to TS-15), $25.00
ST-55 BELT, used, $7.50, M-391 PAD, $4.00
CD-318 SWITCH no straps, used, $10.00
T-45 LIP MIC, $3. BG-150A BAG, "poor", $8.00

0.5 - 32 MHz Receiver



R-392/URR RECEIVER, 0.5 to 32 MHz AM-CW in 32 one MHz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2, 4, 8 KHz; 100 KHz xtal calibrator. With 25 tubes: 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of R-390 receiver. 11.5x14.3x11, 58 lbs sh.
USED-REPARABLE, $185. CHECKED, $265.00
R-392 AS-IS": Receiver less meter and all knobs except tune knobs; otherwise complete. Good for parts! Visually inspected only--NOT tested! $99.50
MANUAL for R-392, partial reproduction, $15.00
9-PIN CONNECTOR for R-392, $9 with set purchase
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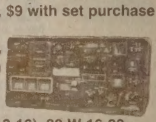

T-195/GRC-19 TRANSMITTER, 1.5-20 Mhz AM-CW-FSK in ten bands manual or autotune; companion to R-392. Power output 100 W (1.5-12), 90 W (12-16), 80 W 16-20 MHz). Uses two 4X150D tubes in power amp & 20 other tubes. Requires 22-30 VDC 42 amps input (9 amps "standby") for dynamotor supply. With voltage monitor meter, but LESS VU-METER; 11.5x 22x14.5, 135 lbs. USED-REPARABLE, $195.00

Ni-Cad Battery Charger

BATTERY CHARGER TRAINER, small electronic unit operates from either 115/230 VAC or 28 VDC and charges at 400 MA constant current rate. Includes AC & DC input cables, output cable, and padded canvas carrying case. Charger 5.5x6x9.5, 3 lbs net; 8 lbs sh. #BC-M820/841, unused, $34.95

WM-46 Cable

CONTROL CABLE used in GRC-Series radio equip; rubber-covered w/ braid. Ten conductor #14, five which are braided.
9 foot length (3 lbs), $10. 18 foot, $18.00
CX-2583 w/ 4-pin UW1220FA17 female; 5', $7.50
CX-4720/VRC DC Cable, 10 feet. $12.00
CX-4721/VRC DC Cable, 2.5 ft, $9.00
CX-4722/VRC Control Cable, 5 feet, $10.00
CX-4723/VRC Control Cable, 1 foot, $7.50
CX-7867 AUDIO CABLE, 25' U-229 /-228, $10.
CX-8652 COILED Y-CORD f/H-161; 2/U229, $10.
CX-12195A Y-CABLE, 6 foot long with 5-pin MS-3II6-14-5S plug to fit U-383, 4-pin MS-3II6J--4P to fit AM-4979/6747 speakers & 3-pin SCD-339543 to fit MX-7777 suppressor; 3 lbs sh. UNUSED, $14.00
GRC/VRC MALE CONNECTORS, specify type and equipment used. USED-cut-offs, $3.50 each
AUDIO PLUGS, used: U-77, $3.50; U-229, $4.00

T-784/GRC-109 Xmitter

T-784/GRC-109 TRANSMITTER, 3 to 22 MHz CW in bands 3-6, 6-10, 10-17, and 17-22 MHz at 10-15 watts depending upon frequency. Crystal control; tuned by adjusting 3 panel controls to tuning chart. Built-in CW key; uses 72 to 1200 ohm single wire antenna. Has codeburst capability, if used with GRA-71 (not available). Tubes 2E26, 6AC7. Requires 450 VDC 100 ma & 6.3 V 1.2 A; 8.6x5.5x5.5, 12 lbs. USED, $25.00
RT-3 TRANSMITTER, similar to T-784 but without code burst capability, USED, $24.95

PP-2684/GRC-109 POWER SUPPLY provides voltages for R-1004/RR-2 and T-784/RT3 from 75-260 VAC 40-400 Hz or 6 VDC 13 amp input. Meter monitors AC input; connections for RX and Tx. 10x8.5x5.5, 28 lbs sh. USED, $29.95

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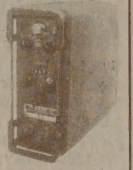
MANUAL for GRC-109, partial repro, $10.00
CN-590/GRC-109 VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord with PL-244 plug; 4 lbs sh. USED, $14.95

PRC-41 UHF Set



RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state execpt for tubes 6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps; 14x 11.3x4.5, 22 lbs sh. USED-REPARABLE, $149.50

MANUAL for PRC-41, partial repro, $20.00
H-33/PT HANDSET, used-checked, $17.50

PP-3700/PRC-41 AC POWER SUPPLY, provides 26 VDC for RT-695/PRC-41 from 115/230 VAC 50-400 Hz input. Clips onto and directly connects to RT. CX-8686 cable (not available) connects PP to MT-2976 racl. CX-8687 (not available) connects PP-3700 to AC source. 7.8x11x4.1, 20 lbs sh. USED, $65.00
MT-2976 VEHICLE MOUNT for RT, 9 lbs sh., $25.
MT-2977 VEHICLE MOUNT for PP-3700, 4#., $9.00

2-12 Mhz USB 100 W

RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x21.3x13.5, 45 lbs. USED-REPARABLE, $150.
MANUAL for PRC-47, partial repro, $25.00
AS-1320 15 FT WHIP ANTENNA only, * WRITE!*
AS-1321 LONG-WIRE ANTENNA, 3 lbs., $15.00
J-45 KEY & LEGIRON, used, $30.00 w/ RT-purch
H-33/PT HANDSET, used-checked, $17.50
LS-166 SPEAKER, used-checked $16.00
CX-8396 "Y" CABLE for H-233 to RT, $8.00
CX-8393 50 ft AC CABLE, $12.00
CX-8394 10' DC Cable, $10. CX-8395 CABLE $8.
BACKPACK FRAME only with harness, $12.50
RUCKSACK SET with frame and straps, $20.00
BB-451 SILVER CELL BATTERY, 24 VDC 25 AH for PRC-41/47, 15 lbs sh. UNUSED, $225.00
CY-3700 ALUMINUM TRANSIT CASE, 65 lbs. $28.00

PRC-25 Transceiver

RT-505B/PRC-25 BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.1 to 2.0 watts; 150 Hz squelch. Transistorized except 2DF4 tube in power amp. Requires 3 VDC 0.4 amp and 15 VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PCC-1 and CU-2194 diplexer; 4x11x14, 18 lbs. USED-complete, $250.

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MANUAL for RT-505/PRC-25, partial repro. $20.
AT-892/PRC-25 RIBBON ANTENNA, used, $12.00
AT-271/PRC 7.5' SECTIONAL ANTENNA, used, $12.
AB-591/PRC RUBBER BASE for AT-271, used, $6.
CW-503/PRC ACCESSORY BAG, used, $6.00
H-250 HANDSET for PRC-25, USED, $17.00
OPERATOR'S MANUAL f/ PRC-25 & AM-2060, $10.

USB Receiver-Exciter

RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 Mhz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 KHz steps + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO and audio functions. LESS Signal Level meter. Requires 24 VDC 10 amp; 7x18x13, 56 lbs sh.
USED: "AS-IS" not tested/LESS meter, ~~$250.~~ $195.
"CHECKED" with meter (not original), $350.
RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 MHz, 0.1 KHz increments. USED: "AS-IS" no meter, $345. CHECKED w/meter $495.

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AM-3349/GRC-106 POWER AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lbs. USED-"AS-IS", less meters, ~~$525.00~~ $400.
MANUALS, partial repro: GRC-106/106A, $40.00
OPERATOR'S for GRC-106A, $10
H-33/PT HANDSET, used-checked, $17.50
M-29B MIC, used, $12. H-227 Headset, $16.95
LS-166 SPEAKER, used, $16. UNUSED, $25.00
AB-652 MAST BASE, 6 lbs sh. UNUSED, $27.00
MT-3140 MOUNT & SIDE PLATES, 25#. Used, $35.
CX-10099 INTERCONNECT CABLE, used, $20.00
CX-10171 ANTENNA CABLE, 4 lbs. Used, $22.00

MD-522A/GRC MODEM, a transistorized modulator-demodulator for radio used with GRC-106//106A HF radios and teletypewriters TT-4A, TT-76, TT-98, UGC-4, or UGC-74. Permits transception of voice, narrow (NSK) or frequency (FSK) shift keying, freq-diversity, and NSK +voice. One-way or duplex Send-Receive. Internal loop voltage 120 VDC 60 ma max. . Has 2BP1 CRT for visual display of signals; also U-77 mic and 600 ohm audio connections. With original voltage-current meter for customer to install. Most connectors not available. Requires 24-28 VDC 1.4 amps; 7x18x13, 41 lbs. USED, $165.00; POWER INPUT CONNECTOR, $7.50
MT-3140 MOUNT for MD-522, used, $20 with set.
MANUAL for MD-522A, partial-repro, $25 with set.

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AN/UGC-74 TELETYPEWRITER for GRC-106 in GRC-142 RTTY system to prepare, edit, store, transmit, receive and print communications in ITA2 (Baudot) or ASCII; 60 - 600 wpm. QUERTY keyboard plus four special keys; single or multicopy 8.5" wide roll paper. In transit case; requires 22-30 VDC and 115/230 VAC 50-60 Hz. 9.5x17.5x24, 99 lbs. Used, not tested, $85.00
OPERATOR'S MANUAL f /UGC-74A, part-repro, $17
PARTS LIST for UGC-74A, partial repro. $17.00

PRR-9/PRT-4A Radios

GOV'T-RECONDITIONED each single channel with crystal for 51 Mhz FM:
#PRR-9 RECEIVER with earphone, antenna, & operator manual. Requires 5 V 25 ma battery power; 7x 3.5x1.5, 3 lbs. ~~$50~~ $40
#PRT-4A TRANSMITTER, two channels and Tone -Voice switch; 450 MW Channel 1. Requires 12 VDC input; 9x 3.6x2, 2 lbs. With antenna & battery box, ~~$50~~.$40
MANUAL for PRR-9/PRT-4A, partial repro, $15.00

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AN/PRR-9 (XE-9) SET, updated PRR-9 with "squelch"; requires 3 VDC input from BA-4534 battery (not available). With AS-1998 ant, earphone, lanyard & operator's book; 6 lbs. UNUSED $89.50

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AN/PRT-4 w/ antenna & battery box, USED, ~~$30~~ $20
AN/PRT-4 "AS-IS", less crystal, antenna, and batery box; for parts or experiment, ~~$10~~. $8.

RT-976A/PRC-75 UHF

RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-CW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design freq-accuracy 1 part per 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accesories; 1.6x4.3 x8, 6 lbs. USED-REPARABLE w/ book, ~~$350.~~ $250.

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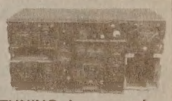
AS-2447/PRC-75 RIBBON ANTENNA, fastens to RT-976/PRC-75 225-400 MHz handheld transceiver; 14.6"L. snap fasterns. NEW, $10.00
UG-1884/PRC-75 ANTENNA ADAPTER, allows for BNC coax antennaconnection. NEW, $9.95
CX-12162 DC/AUDIO DUAL CABLE connects to PRC-75; one branch has 4-pin battery connector, the other mates to UG-229. NEW, $15.

BC-653A TRANSMITTER



WW-2 vintage xmitter p/o SCR-506; operated over 2 to 4.5 MHz AM-CW @ 50-90 watts CW, 10-25 W AM. Has both meters and all controls except LESS LF-HF variable TUNING drawer and panel covers. W/ tubes 2/0C3, 807, 2/814, 2/1613. Requires DM-42/43 12/24 VDC dynamotors and mount rack for power connections (neither available). 12.5x 25.6x14.6, 120 lbs sh.
USED-INCOMPLETE, $195. LESS TUBES, $145.00
MANUAL for BC-652/653 (SCR-506), $10.00
BC-658 SWITCH BOX for intercom use, $12.00

PRC DF Antenna

AT-784/PRC DIRECTION FINDER LOOP ANTENNA for use with PRC-25 -77; covers 30-76 MHz in five bands. Controls FINE TUNE 0-10 MHz in 1 MHz steps and ATTENUATOR 0-40 DB in 10 db steps. Includes AT-1082 loop with whip, CG-2840 & -3344 cables in CW-445 canvas bag. Collapsed size 8x6x3.5, 5 lbs. USED, $34.

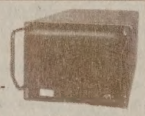
PP-6241 CHARGER

PP-6241 SOLID-STATE CHARGER for silver-zinc (like BB-451 for PRC-41-47) or nickel-cadmium batteries. Three independent charge units with outputs 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1 or 2.25 amp charge. With cables CX11971, CX11972, and CX11973. Requires 115 VAC 45-440 Hz input. 11.5x 13.8x11, 46 lbs. With book: USED, $55. UNUSED,$79.50

Sonobuoy Receiver

R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Regiures external control and 18 VDC. 7.5x2.5x10, 9 lbs. USED, $24.95. SCHEMATIC, $4. w/ set. MANUAL, partial repro, $15. w/ set.

1 KW Power Amp



T-730/TRC-75 TRANSMITTER, functions as 1 KW PEP (400 W AM-SSB) 2-29.999 MHz linear powr amp when used with R-761/ARC-58 Receiver which supplied 200 MW PEP input drive. Uses three 4CX250 tubes in P-A; tuned by servo amplifiers and motors. Requires 115 VAC 400 Hz 3 θ for power supply with outputs 2000 VDC 500 ma, 400 VDC, 27 VDC, 6.3 VAC, -40 to -80 VDC and 115 V 400 Hz 1 θ for servo motors. With tubes 2/6CL6, 5896, 3/4CX250. C-3141 Control required for channel selection. 7.8x10.3x24, 55 lbs. USED, $275.00 SCHEMATIC for T-605, $6.00 with set purchase.

R-761/ARC-58 RECEIVER, companion reciever and exciter to T-730. Requires 115 VAC 400 Hz input. 7.8x10.3 x23.5 55 lbs sh. USED, $175. SCHEMATIC, $6.00 with set purchase. C-3141 CONTROL for freq-select; 6 lbs. USED, $25. CONNECTORS for above $5 each w/ set purchase

ARC-60 ITEMS

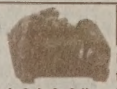
R-508 AIRCRAFT RECEIVER, 118 to 148 MHz AM continuously tunable, but does not have dial; tuned remotely using control box with MC-215 flex spline (not available). 15 MHz IF; binding post & BNC antenna connections on front. Tubes 12A6, 14A7, 14F7, 2/14R7, 9002, 3/9003. Same as R-19; p/o AN/ARC-60 & ARC-type 12. Requires 250 VDC 60 ma & 28 VDC. 6.5x5x11.8, 15#. USED, $20.

D-10 28 VDC DYNAMOTOR f/ R-11/R-508, USED $7. T-363 (T-13A) Xmitter, 4 channel 132-148 MHz range (no xtals); 4/5763 tubes. GOV"T -RECOND, $27.00

CV-431/AR FREQUENCY TRANSVERTER, p/o ARC-60 set: receives RF in 228-256 MHz range and converts them to 118-148 MHz for reception on R-19 receiver. Also transmits over 228-256 MHz AM on 8 crystal channels; 1/2 watt output. (Crystals not included.) With tubes 3/5763, 6201, 6360, 6939. Requires 28 VDC and +250 V. 4.8x4.8x11.5, 9 lbs. UNUSED, $22.00 MT-1140 MOUNT for R-19 or CY-431, $3.50 ea

O-423/AR OSCILLATOR-RELAY provides 1 KHz tone for "whistle-thru" tuning of ARC-60. Has level adjust, two BNC connections, five 28 VDC SPDT ceramic relays. 3.9x5x2, 3 lbs sh. $9.95

Aircraft Gyros



LEAR 3-AXIS RATE SENSOR with three #2157HB rate gyros; 3.4x6.4x6, 9 lbs sh. Lear #2162C, ~~$250~~. $175.00

SPERRY ROLL & PITCH CONTROL GYRO, model K-6; Rotating center 5.5"Lx4" dia; removable top cover. 6.4"Hx8" dia; 6 lbs. #K6-8510, $75.

100 to 225 MHz Amp

AM-912/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 100-225 MHz FM @ 100+ watts using 4X150A tube. Controls Grid & Plate Tune and Amp Output Coupling. Requires +750 V, 200-350 V screen, and 6.3 V filaments; with schematic. 12x6x14, 24 lbs sh. USED, $59.50
AM-915, 225-400 MHz; 4X150A, 4X150G. $85.00
AM-1178, 400-600 MHz; 4X150A 4X150G. $75.00
AM-2537, 790-915/ 840-925 MHz; two 5876, $95.

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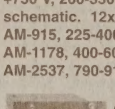


AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter ! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V . 7.5x6.5x9.5; 15 lbs sh. USED, $35.
AM-1179/GRC, 50 to 100 MHz, used, $39.50
AM-1177/TRC, 400 to 600 MHz, used, $44.50
AM-3203A/TRC, 1.35 to 1.9875 GHz, used, $49.50

602-999 MHz Oscillator

AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receiver module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC, 650 VDC, 800 VDC, 5.7 VAC, 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs sh. USED, ~~$99.50~~ $75.00

AM-1955B/GRC AMPLIFER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 MHz band; 60 MHz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5842. W/ wavemeter & calibrate book. Requires 150 VDC, 6.3 V. 15x9.5x8, 30 lbs. ~~$45~~ $35.

ARN-30D VHF Receiver

R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 Mhz; 2nd 1.7 MHz. Electrically turned crystal turrets with frequency displayed on side panel. Adjustable squelch; 300 ohm audio output. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10 lbs sh. USED, $29.95
C-3436/ARN FREQUENCY CONTROL, used, $15.00
Operator MANUAL f/ ARN-30D, part-repro, $7.50

400 W HF Power Amp

AM-4573/ARC-123 HF POWER AMPLIFIER, used with 2-29.9999 MHz SSB aircraft radio set to produce 400 W SSB PEP using two RCA 4633 Tubes. TNC RF input & N output connections plus Running Time Meter. Also ten Jennings RJ1A 26 VDC vacuum relays and gold-plated feed-thru caps. Requires 115 V 400 Hz 3 phase; 7.6x5x15.3, 24 lbs sh. USED w/ schematic, $250.00

W-J 8716 HF Receiver

WATKINS-JOHNSON 8716 HF RECEIVER, 5 KHz to 29.99999 MHz AM-CW-LSB-USB-ISB continuously tuned on LED display. IF bandwidths 0.3-1-3.2-6-16 KHz; stability 6 x 0.00000001. Requires 100-115/230 V 48-420 Hz. With WJ-8718 manual copy. 5.3x19x19.4, 43 lbs sh. USED-EXCELLENT, $2250.00

HF-80 KW Power Amp

ROCKWELL HF-8023 POWER AMPLIFIER, solid-state 1 KW (avg) amp utilizes one driver plus four 250 W power modules to achieve rated output; VSWR: 1.3:1. Designed for use with HF-8014A exciter and power supplies HF-8031 or 8032. We offer HF-8032 to power HF8023 from 208/220/230/240 VAC 57-400 Hz 3 phase input. Interconnect cables & manuals not available. HF-8031 (622-3490-207): 10.5x 19x25, 62 lbs sh. HF-8032: 9x19x24, 90 lbs sh. HF-8023/8032, used-clean, NOT TESTED, $3750.00
HF-8030 (622-3383-001) POWER SUPPLY for HF-8020 power amp; 90 lbs sh. USED, $1500.00

ARC-164 Parts

MT-6147/ARC-164 ADAPTER MOUNT, retrofit ARC-164 (or=) into older ARC-34 mount. Rear rack connector for system harness; front plug for ARC-164 plus N coax conn. 1.5x13.8x11, 11 lbs. USED $25.
RX-70 MHz-TX /MAIN RECEIVER MODULE for RT-1288A/ARC-164 (V), 1990 date codes; 2 lbs sh. #5821-013-021-1368, NEW, ~~$125.00~~ $99.50

URG-2 Modules

GRR-18/GRT-17 RECEIVER-EXCITER MOUDLES & RACKS from "complete" group pictured. Black box modules fit into rack slot. "USED-NOT TESTED".
TS-2923/GRR-18 (599H3) RECEIVER TEST, $39.50
CV-2649/GRT-17 (888B-1) AMPLIFIER CONVERTER, provides output signals for exciter from 250 KHz IF input; less cover, 8 lbs sh. $99.50
CV-2653/GRR-18 (889A-2) AUDIO FREQUENCY DETECTOR for receiver, 7 lbs sh, $150.00
CH-644/GRT-17 EXCITER RACK ONLY for URG-II exciter modules, 10.4x18.8x22.6, 18 lbs. $75.00
490T3 ANTENNA COUPLER for 1 KW 548L power amp. USED, $450. MANUAL, partial repro, $25.

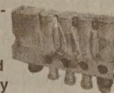
Collins VHF Tx-Rx Set

AN/ARC-73 AIRCRAFT RADIO SET made by Collins; consists of T-879 (17L-7A) transmitter, R-1123A (51X2B) receiver, C-4074 (614U) control and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W min. above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1173A covers 108 tp 151.95 MHz in 50 KHz steps (720 chanels). Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter counter and has Volume, Squelch, and On-Off functions. Mating connector not available. MT-2699 rack is unused but is missing connectors. Operator's manual and schematics included; 9.5x8.5x16, 40 lbs sh. USED, $149.50
T-879 TRANSMITTER only; 20 lbs sh. USED, $69.50
R-1173A RECEIVER only; 19 lbs sh. USED, $75.00
C-4074 CONTROL BOX for frequency selection, volume control , etc; 3 lbs sh. USED, $10.00

UGC-129 Teletypewriter

AN/UGC-129 TACTICAL TELETYPEWRITER with MU-734/UGC MAGNETIC TAPE UNIT, microprocessor controlled full duplex teletypewriter has 16K RAM and QUERTY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS: 69-80 character line, single or double line feed. 64-character ASCII subset; ITA5 or Baudot codes. 8 baud rates 45.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multi-copy. MU-734 TAPE UNIT stores 8-bit data for UGC-129 on standard cassette tapes; 300K char / tape. Requires 115/230 VAC 47-400 Hz; connectors not available. UGC-129: 9.5x15x18.5, 52 lbs. MU-734 7.8x8x13.5, 18 lbs. USED-REPARABLE, $75.00/ set UGC-129 ONLY, $49.50; MANUAL copy, $35 w/ set

900-1100 MHz Cavity



TRANSMITTER TRIPLER / PRESELECTOR CAVITY MODULE from TACAN system in 900-1100 MHz range. Consists of preselector and four silver-plated cavities originally gang-tuned using ball-chain drive (not available) 10x7.5x2, 7 lbs sh. #4-CAV-93, used, $49.50

TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 MHz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.I MHz filter. 8x4 1/2x4, 6 lbs sh. #5821-953-9695, used, $18.95

Class C Power Amp

CLASS C POWER AMPLIFIER removed from T-195/GRC 100 watt transmitter; uses 4X150D tube to cover 1.5 to 20 MHz in ten bands using variable and fixed capacitors, switches, and 400 Hz servo motor. Chassis also has discriminator and servo amp. Requires-1000 VDC modulated, -250 VDC, -45 VDC & 115 V 400 Hz for motor. W/tubes 4X150D, 5751, 6AQ5, 5763 and schematic. 9.5x8.5x6, 15#. PA/T195 used $27.

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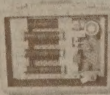
MODULATOR for T-195 provided audio to modulate PA & supply sidetone; 300& 3500 Hz bandpass. W/ tubes 2/12AT7, 5726, 5814. LESS 2/4X150D. 8.5x6x4.3, 7#. #T-195/MOD, above less 4X150's & sockets $10.

Antenna Simulator

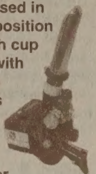


ANTENNA SIMULATOR by Boeing, a portable RF load box using two 77 and four 27 ohm 50 watt non-inductive resistors, one CRL 859 60 PF 20 KV doorknob capacitor, five CM-55 mica cap, and silver-plated coils. Has 5" dia 115 VAC 60 Hz cooling fan; transit case has removable covers. 11.5x16x13, 33 lbs sh. #ANT-SIM, used, $40.

PRC-25 Module Tester

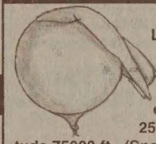
AN/GRM-55 TEST SET, used to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, CX-8593 cable assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8, 10 lbs sh. GOV'T RECONDITIONED, $77.00

AIRCRAFT SEXTANT



AIRCRAFT SEXTANT w/ PERISCOPE, used in larger aircraft to determine nightflight position relative to the stars. Has eye-piece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Great experimenter/ collector item! Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lbs sh. #MS28011-1F, used w/ fiberglass case, $75.00

7 ft Weather Balloon



ML-541A WEATHER BALLOON 7 feet diameter streamline sounding type designed for rapid 1700 ft/ minute ascent to carry meterological equipment to upper atmosphere. 2500 gram free lift; bursting altitude 75000 ft. (Specs based upon hydrogen fill. Use of helium or air alters performance.) Two 4.5"L x 1" dia necks; neoprene, 2/86 date code. 5 lbs sh. UNUSED, $17.95 each; 2 for $32.00

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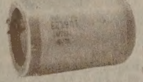
M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grs of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) Cans are dented; suitable only for recovery of calcium hydride. 11.6"L x4.3" dia, 4 lbs. UNUSED-dented, $8.95 ea; 2/$15. INFLATION TUBES for M315B, $3.00 ea

Piezo Crystal



PIEZO CRYSTAL CYLINDER for use in pressure or sound experiments. These unusally large 3.4" ida x 5" long crystals produce a high potential when subjected to pressure change caused by weight and temperature change. When audio frequency is applied crystal responds from 1.5 KHz with a peak at l2 KHz (3500 ohm impedance) and a peak at 17 KHz (230 ohm). Dips and peaks occur throughtout the audio and ultrasonic range. Cylinder wall 0.4" thick; can be sawed with difficulty into smaller sections. Originally used in sonar system; may have minor chips. 7 lbs sh. #P-XTAL, used, $27.00

Collins HF Oscillator

0-215/ARC-38 STABILIZED MASTER OSCILLATOR ASSEMBLY from RT-3lI/ARC-38, an aircraft HF transceiver. Utilizes series-fed electron-coupled oscillator, a more stable variation of Hartley-type. Step-adjusted inductor covers 14000 positions to tune osc- frequency 1.75 - 3.5 MHz in 125 Hz steps. Has Collins SMO #70E-22, discriminator #147A-1, 27.5 VDC gear drive and tubes 3/6AK5, 6BA6, 2/6BE6. 6x6.5x10, 15 lbs sh. USED, w/ schematic, $35.00

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POWER AMPLIFIER from 618S-1 2-25 MHz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3 3/4x1 3/4: dia with 27 turns #14 silver-tinned wire rotated by 115 VAX 400 Hz selsyn. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf and 1000 pf. Big silver contacts on ceramic switch; used three 6159 tubes. 11x5x6, 10 lbs. #3496/618S-1, less tubes, $28. With tubes $39.50 MATING CONNECTORS, 2 required, $3.00 ea SCHEMATIC for 618S-1 power amp. $2.00

Tele Coster I

TELE COSTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plug elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs sh. NEW w/ info, $8. 2 for $12.

CU-937 Tester

TS-3797/UR TEST SET for CU-937 antenna coupler; tests circuits Motor Tune, Load, Bypass Normal and Network Select. Indicator lights show results; controls NETWORK SELECT 1 thru 11, TUNE/LOAD SELECT Hi-Lo, EXT-INT +28 V. Includes cables to connect TS to CU-937 & CU to AM-3007. Requires 115 VAC 60 Hz; 9.3x9.8x8.8, 15 lbs sh. UNUSED, $49.50 CABLES ONLY: TS-CU737, $15. CU to AM3007, $20

DUMMY LOAD

DA-189/GRC DUMMY LOAD, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts max. Output indicated on 3.5" dia meter; "C" input connection. 4x4x10, 9 lbs sh. UNUSED, $75.

Vacuum Capacitors

CERAMIC VACUUM VARIABLE CAPACITORS, removed from equipment & tested. Jennings or equal mfg.
#CVA-7-5, 3.5-7 pf 3.5 KV 4.3"Lx3" dia, 5 lb sh. UNUSED, $55.00
#UCSL-750-5 (glass), 6-750 pf 5 KV; 7.8"Lx3" dia, 4 lbs sh. $135.
#CVCH-1000-5, 7-1000 pf 5 KV; 7.8"Lx3" dia, 5 lbs sh. USED, ~~$165~~. $149.
#UCSL-1000-5 (glass), $150. #EL-1000-5, $145.
#CVFB-1500-40 20 to 1500 pf 40 KV peak; 12.5"Lx 6.5" dia, 26 lbs sh. UNUSED, ~~$750~~. $595.

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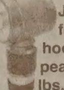
FIXED VACUUM CAPACITORS, various mfg; used:

CY-3-25, 3 pf 25 KV ceramic; 3.3"Lx0.8",		$12.00
JCS-2A-10, 25 pf 10 KV, 2.6"Lx1.5" dia,		$15.00
VC-12-20, 12 pf 20 KV; 6.5"Lx2.8" dia,		$14.00
CFEA-150-7, 150 pf 7.5 KV; 3.3"Lx2.3" dia,		$75.00

Vacuum Contactors

JENNINGS SPDT CONTACTOR RELAY, rated 1 KW @ 300 MHz, 3 KV test. Actuator 6 VDC. Has 4-pin Cannon power & three SC coax connections. 3.5x3.2x4, 2 lbs. #RC47R6153M430, NEW, $75.



JENNINGS SPST VACUUM CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDC. 4x8x3.8, 7 lbs. #RC10A5225A24, unused, ~~$125~~ $99.

JENNINGS SPDT RF VACUUM CONTACTOR for high power transmit and process equipment. 26.5 VDC actuator switch rated 300 amps @ 2.5 KV peak; peak test 10 KV 60 Hz. Sealed metal enclosure w/ mount flange; connector not available. 15x 5.3 x9.5, 22 lb. #RF20BLDE8I2I-l, ~~$225~~. $150.

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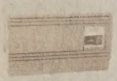
JENNINGS VACUUM RELAYS, 26 VDC coils, USED:
#RB-1H SPDT 12 KV, $49. #RB-2A DPDT 20 KV$85
#RJ1A SPDT 3.5 KV, $35. #RS-8 SPST 28 KV, $53

Un-Interruptible Supply

DELTEC MODEL 1820 UN-INTERRUPTIBLE SUPPLY (UPS), provides regulated AC line power during power outages, line fluctuations or fast transients. Input: 120 VAC 32 amps. Output: 120 VAC 15 amps 60 Hz. Utilizes charger-battery-inverter circuit paralleled by AC bypass line. Requires 84 VDC rechargable battery pack (not available). Meters 30-150 VAC & 5-25 amps AC. 14x19 x21, 250 lbs sh. USED-EXCELLENT w/book, ~~$395~~. $295.

UPS SUPPLY produces 120 VAC 60 Hz 500 watt output from 48 VDC input. Rechargeable 8 cell x 6 VDC lead-acid battery pack supplies power when normal power is interrupted. Inverter output is modified squarewave with zero crossing. No further data; batteries functional, but no warranty as to cell life. W/casters; 14.5x12.5x10.3, 100 lbs sh. #UPS-48-500, USED with output, ~~$149~~. $125. INVERTER SECTION only: #INV-48-500, $99.50

AC Line Conditioners



WANG POWER CONDITIONERS, electronic line voltage regulators with full magnetic isolation protects computer & similar equipment from line voltage surge or "sag" damage. Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4:
#SC-50-PC, 500 VA output with four 3-conductor AC outlets; 36 lbs sh. NEW, ~~$250~~. $150.
#SC-100A-PC, 1000 VA output with one large L5-20R receptacle; 45 lbs sh. NEW, ~~$325~~. $195.

WANG LINE REGULATOR, designed for 120 VAC 500 W constant output for computers from 95-130 VAC 60 Hz inputs. Has two 3-conductor outlets, On- Off switch, and line cord. 7.8x8.5x16, 40 lbs sh. #725-2740, unused,. ~~$195.00~~ $125.00

SOLA #63-13-150 C-V HARMONIC NEUTRALIZED REGULATOR, 120 V 60 Hz 500 W output from 95-130 VAC 5 amp input. Two 3-cond outlets & On-Off on front. 6.9x7.8x13.3, 34 lbs. #63-13-150, used $95

400 W LINE REGULATOR, input 96-132 VAC 50-60 Hz; output 115 VAC =5% 0.75 to 3.5 amps. Harmonic distortion 12% total max: circuit breaker. MIL-spec quality: 11x6.5x11, 70 lbs sh. #102-5675, unused, $49.50

Frequency Converters

ELGAR 500 W FREQUENCY CONVERTER uses four 125 watt power amps whose voltage, frequency & phase are digitally programmable. Input 208 VAC 60 Hz; output 300-1000 Hz selectable 0-15/30/130 V (phase A'), 0-40/160 V (phases A, B, C) & tandem A0+B0=240 VA @ 115 V. Special Elgar 504 requires 16-bit binary & TTL programming to operate; info not available. 7x 19 x24, 150 lbs. #580-283-047, UNUSED, ~~$495~~ $350.

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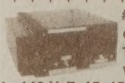

#RC-FC350 FREQ-CONVERTER, changes 120 VAC 60 Hz input to 120 VAC 400 Hz 350 watt sine wave output. Output adjusts 60 to 140 V. 7x15x15.5, 44 lbs sh. NEW, ~~$495~~. $400.

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PP-7482/G STATIC FREQUENCY CONVERTER, changes 115 V 60 Hz input to 400 Hz output 1 phase 1000 watts. Internal pots adjust output voltage and freq. Made for Rockwell (#622-3861-001); 19x5.5x19.5, 55 lbs sh. USED-CHECKED, ~~$750~~ $600

Variable Transformers

GENERAL ELECTRIC VARIABLE TRANSFORMER, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4"dia X 4"H; 6 lbs sh. GE #9T92A1515, NEW, $19.95; 2 for $35.00

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VARIAC W2, 0-140 VAC 2 A w/knob & dial, NEW $24
POWERSTAT vari-xformrs, no dials & knobs. USED
#10B, 0-130 V 1.75 A 60 Hz out; 3 lbs. ~~$17.50~~ $15.
#LW136B, 0-30 V 25 amps 60 Hz out from 240/120 V input; enclosed, 12"dia X 8"H, 25 lbs. ~~$75~~ $65
#M116 BU, motorized 0-140 V 10 A; 25 lbs sh. $75.
#DMLW-136BT-3, motorized 3 X LW136B 3 phase 440/480 V input; 12" dia X 30"H, 90 lbs. $145.00
#1156D, 0-140 V 45 AMPS 7 KVA out; enclosed w/ dial & knob, 80 lbs. USED, $225.00
#GA5065OL 380 HZ VARIABLE TRANSFORMER, input 120 VAC 380/1000Hz; output 0-120 VAC 380/1000 Hz 13 amps. 7x6.2x3.3, 9 lbs. $18.00

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240VAC 60 HZ INPUTS; not enclosed. USED:
VARIAC W5H, 0-240 V 2 amps; with knob, $32.
VARIAC W20H, 0-240 V 8 A from 120/240 V, $95.
POWERSTAT 1156, 0-240 V 28 AMPS; enclosed, but without knob and dial plate; 80 lbs sh. $195.00

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OTHER RATINGS AVAILABLE--Tell us your needs!

TECHNIPOWER 3-PHASE, 115 V motor-driven unit with three ganged 0-130 V 10 amp Variacs. Not enclosed; less dial & knob. 6x20x7.4, 50 lbs sh. #3060-9030, UNUSED, $135.00

Twin Lead Wire

TWIN LEAD HOOK-UP WIRE, 5000 foot reel of 2 x #24 low voltage control cable; suitable for speaker, field phone, outdoor lighting or similar low voltage wiring uses. 32 lbs sh. #2x24-5K, NEW, $29.95

Belden TV Wire

BELDEN "CITY COLOR" SHIELDED TWIN-LEAD TV WIRE; two 26 AWG 7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-UHF-FM use in high interference metro areas. 75 ft (3 lbs), $8. 100 ft (4 lbs), $10.00

MULTI-LINE TELEPHONE CABLES 18 feet 50-conductor PVC-jacketed cable with C inch 77-72500 blue connector on one end & terminal lugs on the other; a ready-made piece for complex wiring jobs. 3 lbs sh; #50-TC-18, used, $5.95

HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded cooper; no color choice. May not have continuous lengths over l000 ft. Allow 2 lbs sh weight per 100 feet

SIZE:			
#12	$12/100 ft	$99/1000 ft	
#14	$7.50/l00 ft	$48/l000 ft	$195/5000 ft
#18	$3.50/100 ft	$22/1000 ft	$85/5000 ft
(#18 has thick insulation; O.D. 0.185")			
#14 SOLID	$7/100'	$45/1000'	$175/5000'
#16 SOLID	$4/100'	$24/1000'	$95/5000'
#22 SHIELDED	$3.50/100'	$22/1K'	$75/5K'
#26 SOLID	$6/500'	$9/1000'	$30/5000'

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RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

# RIB-20C-	10 ft	100 ft	500 ft	1000 ft
Price per foot:	$.50	$.40	$.30	$.20

Lambda Regulator

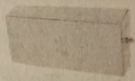
LAMBDA POWER HYBRID VOLTAGE REGULATOR provides highly stable output of 15 VDC 15 amps max from input of 40 V max; load variance to 20 amps. Line regulation: 0.15%, load: 0.2%. Features low noise and thermal isolation construction and remote programming & sense. 2.5x0.9x2.1, 1 lb sh. #LAS-5125-005, NEW $14.95

Rectifiers

FULL WAVE BRIDGES:
#KBPC6005, 50 V 6 amp: used, $1.
#KBH25005, 50 V 25 amps, used, $1.35
#2N692 SCR 25 AMP 800 V stud mount, $3.00
#SCR-135048Y, 1300 PIV 500 A; 7" tail. USED, $15

DIODES: 1 AMP 50 PIV 20/$1. 400 PIV 15/$1.
1000 PIV 10 for $1.00 MR752 6 AMP 200 V $1.10
MR754, 400 V, $1.25 1N21 RF diode, $1.50
1N23 RF diode, $2.50 1N3890 12 A 100 V, 4/$3.
1N1184 or 1N1184RA, 35 A 100 V; Used, $1.00
#30084-A 84 AMP 300 V stud mount; Used, $5.00
#D18937300, 100 PIV 150 A, 4" pigtail, Used, $3.75
#D-R610-0230, 200 PIV 300 A; 4" tail. Used, $8.95
MR1265FL, 300 PIV 650A; w/hdware, 3 lbs. $17.50

0.01 MF 100 KV Capacitor

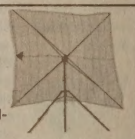


A high voltage experimenter's dream! A compact 5"x10"x2.5" 0.01 MF 100,000 VDC capacitor removed from an exotic government project which used 100 of these in series! Nov '83 date codes; 1"L #12 stud ends, 7 lbs sh. #KM14-1000-10, $99.50 ea

DC Suppressor

MX-7777B SUPPRESSOR protects vehicule radios VRC-12, VRC-53/64 & GRC-106 from damage by voltage transients. Input 28 VDC; output < 36 VDC. Has 50 amp circuit breakers for Overload & Short; diode overheat protection & manual (BATTLE) override. 5.3x7.3x6.8. 7 lbs sh. USED, $17.50 PLUGS (2) for MX7777; #29935-2P, used, $4 ea

Log-Periodic



AS-2236/GRC ANTENNA SET, light-weight with minimal guying makes this 30 to 76 MHz low-power log-periodic antenna excellent for field day! Rated 65 Watt with VSWR 3:1, 50 ohm impedance. Array mounts on 35 foot mast and unfolds to 10 ft square. Includes antenna, seven 44.5"Lx2.75" dia aluminum mast sections, 44.5"L x 2.75" dia fiberglass section, pivot for horizontal or vertical polarization, folding tripod (10.5 ft square) with foot pads, six stakes, three screw anchors, guys, ropes, hammer, and set-up info. Array may have reparable wire "breaks"; 100 lbs sh (UPS in 2 pkgs.) USED, $125. ABOVE with "NEW" array: AS2236-DM, $155.00

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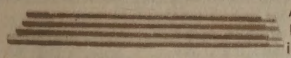
ARRAY ONLY for AS-2236; mounts to 2.5" dia pipe. Packed size 10"x42"x10"; 20 lbs sh. Dorne & Margolin #DM199-38-7634, NEW, $59.50

NAVY CABLE ANTENNA

AS-3379/BRR WIRE-CABLE ANTENNA, probably dragged behind ships or submarines as VLF-LF antenna. Consists of 125 foot long 5/8" dia coaxial cable with 8"L cast aluminum mounting shank and special RF connector which could probably be changed to common N or C connector. Suitable also for under or above ground use. No further info; 23 lbs sh. UNUSED, $59.50

Field Day Mast Kit



AB-155 MAST KIT, includes eight self-stacking 66"L x1.6" dia aluminum MS-44 mast sections to make 40 feet mast. Also 4 each guy ropes MX-381 (40 feet), MX-382 (31 ft) , MX-383 (50 ft), one MX-516 rope, 5 each MX-378 guy rings, AB-154 swivel base, six and GP-101 15" stakes; 70 lbs sh. USED, $89.50

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TRIPOD ADAPTER, uses three MS-44 as legs to "free" stand mast to 24 ft without guy support; 4 lbs sh. #TRI-AB155, USED $10.00

MS-44 MAST SECTION ONLY, 66"L aluminum masts have other potential uses such as tent, flag or volleyball poles; 4 lbssh. USED, $8.00 ea

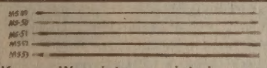
AB-154/U SWIVEL BASE, sticks into ground and pivots MS-44 to vertical; 3 lbs sh. USED, $9.00

MX-381/GRA-4 GUY ROPE, 40 ft long; 3/16" nylon 800 lbs-test; w/ hooks & insulators, used, $4.00

MX-382 31 ft, $3.00; MX-383, 50 ft, $5.00

MX-378 GUY RING for masts to hook guys, $1. ea

Whip Mast Sections



3-FOOT MAST SECTIONS (left), WW-2 & Korean War-vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; MS-49-50-51-52-53, used $3. ea MS-54 or MS-56, $6 each. BG-56 canvas bag, $14.

SAUCER CERAMIC BASE fits MS-53, 5" dia x 1.5"H + 3/4"H terminal; 3 lbs sh. #INS/TRC75, $10.00

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MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 mid dle and MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb sh ea. USED, $3.50 ea

AB-21-22-23-24-MAST SECTIONS, similar to MS-116-117-118 except 27" length each. AB-21 is bottom section; 1 lb each. USED, $3.25 ea

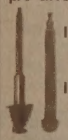
MAST BASES

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 mast sections; spring action with 3.3"L x 3" dia ceramic insulator & bottom terminal. Requires 2" dia hole for mounting. O/a 15"L, 3#. USED, $8. NEW $15

MP-65 MAST BASE, similar to AB-15 except 4"L x3" dia insulator; o/a 17"L; 4 lbs sh. USED, $12.

UG-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6"dia; SO-239 conn. USED, $10.

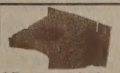
AB-652 ANTENNA BASE for MS-116-117-118 mast p/o GRC-106. 20"L; 6 lbs. USED, $20. NEW, $28.



IN-127 ANTENNA BASE holds 3/MS-116 & 1 each MS-117-118 for RT-77/GRC-9; 14.5"L black plastic. 2#. USED $12.

IN-106A BASE for MS-56 mast; clamps to SCR-284 WW-2 radio. Top & bottom terminals; brown plastic, I4"Lx3" dia, 3#. $8.00

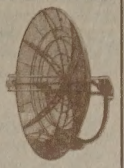
Mount Brackets



ANTENNA MOUNT BRACKET for mounting 2" dia antenna bases like AB-15 or similar to vehicles or other flat surfaces. Mount plate 6.3"W x4"H; base hole center extends 3.9" from plate. 4 lbs sh. #SM-B114371, UNUSED, $9.95

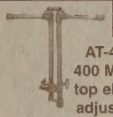
ANGLE BRACKET for attaching MP-50 or similar mount bracket to corner of vehicle. Bolts for MP-50 & drilled for side mount; 5 lbs sh. #SCC-28591 NEW $9.95

8 Foot Dish Antenna



AS-554/TRC 8' ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 MHz bandwidth. 20 db major to minor lobe ratio. 36" focal length; 16" fall from edge to center. Shipped in sections with yoke. Mesh may have minor but reparable breaks. 425 lbs sh wt. USED, $265.

UHF DIPOLE



AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" each end to adjust reception; 20" max T-width. Mount flange moves to adjust height. Type C connection on bottom. O/a 15.5"H, 12 lbs sh. UNUSED, $16.

LF-DF Antenna

AT-780/ARN-59 DIRECTION FINDER ANTENNA, 190 - 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx selsyn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5, 8 lbs. USED, $39.50; #NG-AT780, above no glass, $30.

Impedance Match

CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped designed to mount to aircraft wing. Holds two AT-624 antenna masts (not available); 50 ohm BNC-conn. P/o AN/ ARA-31 24-49 FM MHz homing set; 4.3x3.3. 2# . UNUSED, $7.

KY-149/AR KEYER, couples homing antenna to radio; requires 28 VDC. 2.3x7.7x4.9; 3 lbs sh. Unused, $14.95

PRC-Type Antennas

AT-271 WHIP ANTENNA, 7-section 7.5 ft length for use with PRC-8-9-10-25-77 radios. USED, $12..00

FIXED STATION BASE for AT-271/PRC; a black phenolic 3 1/4" dia base w/ silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555, $6.00

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2 lbs sh. UNUSED, $10.00

SHORT FLEX BASE only, $3. RIBBON only, $8.

AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) $4.

AT-892 RIBBON ANTENNA with FLEX BASE for PRC-25 & -77, USED, $12.. UNUSED, $16.00

FLEX BASE only for AT-892/PRC, USED, $6.00

AB-591 RUBBER BASE f/ AT-271 (PRC-25-77), $6.

RIBBON ANTENNA for PRC-6 radio, USED, $8.00

M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long antenna, $4.00

CANADIAN MK II UHF ROD only, 24" long, $5.00

MK II AERIAL BASE No 9, 25" H. #PC-76701, $15.

PC-76418C-191 DUMMY AERIAL f/ MK-II, used $9.

AT-5001/PRC WHIP f/ Canadian CPRC-26, used $8.

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AT-1095 TOP MAST f/AS-1729; fiberglass. Used, 15

TIE-DOWN KIT for AS-1729/VRC including tie-down rope and plastic cap for AT-1095, $8.00

MOUNTINGS for MX-6707 p/o AS-1729, USED:

SCD-189023 f/ base, $10. #SCD-446058 corner, $10

EXTENDER for SCD-446058, $6.00

+ +

GRA-50 ANTENNA MAST KIT f/ GRC-106A radio; includes 3 each MS-116 and 1 ea MS-117 & MS-118 sections, AB-652 base, polyethylene cover sheath & CW-206 roll bag; 18 lbs sh. USED, $35.00

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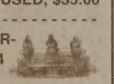


VIS-O-GLOW NEON LIGHTNING ARRESTOR, 1.8x4.3x1.3; Brach #1003, $4

Rembrandt Antenna

FM STEREO ANTENNA omni-directional 8-element antenna is electronically "rotated" using remote command control. Elements each 20" long; assembled dia is 47". Fits 1.25" dia mast; mount in-doors or outdoors. With 50 feet 4-conductor lead wire, control unit, and hardware; 7 lbs sh. REMBRANDT Model 5000, NEW, $25.00

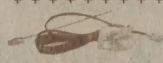
Hy-Gain Antennas

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES antennas include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector & UG-175 reducer; 5 lbs sh. NEW, $9.95 ea:

#761 (30-33MHz) #767 (33-36 MHz)

H-G #281 Mobile Coil Antenna for 15 meters w/ 52" whip & 2.8"Hx2" dia load coil: $9.95

+ +



GE #EY-20 MOBILE ANTENNA, 19"L whip; cut length for desired freq in 130-470 MHz range. Clips to vehicle window gutter: 9 feet RG-58 coax w/ PL-259. 3 lbs sh. UNUSED, $12.95

- -

KATHREIN K50-54-4 WHIP, 64-470 MHz; cut 4 foot length; 1-hole mount, 15' RG-58 coax. 4 lbs. $15.

Long-Wire Antennas

RC-432/G LONG-WIRE ANTENNA SET, 160' 0.09" dia braided wire on reel; terminations on each end permits other RC-432's to connect and increase length. Used with 400 W HF Tx; 12.5x4.3x2, 5 lbs. USED, $15.00

AS-1321/PRC-47 LONG WIRE ANTENNA 45 ft vinyl-covered with insulators at 15" and 25"; clips at insulators adjust length. Designed for use with 150 W HF transceiver;4 lbs. UNUSED, $16.00

DIPOLE FIXTURE part of PRC-74 long-wire antenna set. H-shaped has 25" vinyl-covered 2-conductor copper wire. Used with 15 W HF Tx-Rx; 2.5x12x1, 3 lbs sh. #DP-MK-911, UNUSED, $6.

AN-22A LONG-WIRE, 20 ft W-29 wire with snap hooks; p/o SCR-177/188 (BC-191). 2 lbs. $4.95

Counterpoise

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lbs sh. USED $12.

GY-12/42 GUY ROPE SET, 3x20' lengths, Used, $7.

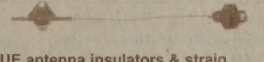
M378 ROPE, 80', $6. M379, 10', $1.50

A-62 Phantom

A-62 PHANTOM ANTENNA, electrical network used in place of antenna to tune BC-604 20-28 MHz xmitter. Adjust INCREASE and MAX-MIN; ANT & GND terminals. 7"Hx4" dia. 4 lbs sh. USED, $19.95

BUDWIG

HYE-QUE

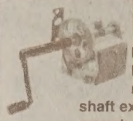


BUDWIG HYE-QUE antenna insulators & strain connector for long-wire set-ups; full legal power capacity + weather-tight polymar construction.

#HQ-CONN strain assembly with PL-259 connection for lead-in wire drop. NEW, $6.95

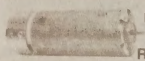
#HQ-INS-PR, insulator pair, NEW, $1.75/ pair

Handcrank



HANDCRANK MAGNETO GENERATOR from telephone equipment; features long crank with shaft extending 2.5" from generator and mount plate that allows left or right side or bottom mount. Replace "dead" generator in antique phone or as remote bell ringer or "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used, $15.95

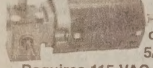
G-25 or = HANDCRANK GENERATOR, similar to above but armature in metal can; used in various mil-phone equip. 4"Lx 2.5" dia: 4 lbs sh. USED $16.
G-42 GENERATOR, p/o TA-312 field phone, $16.50
GN-38B GENERATOR, p/o EE-8, TP-9, USED, $17.



DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x 1/16" dia; o/a 2.9 x 1.1. #AST-GK26 $7.95

DC Stepper Motor

PRINTER STEPPER MOTOR usable for robotics and similar projects; rated 3.5 VDC 2.7 amps. 1/4" dia shaft extends 1/2"L both ends. Driver circuit required: o/a 5.3"L x 2.3" dia, 4 lbs sh. #23D-6306, USED, $9.95



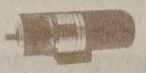
GE MINA GEAR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf capacitor; o/a 4x10x3, 8 lbs sh. GE #5KCM49NG, used, $8.95
CAPACITOR for above, non-PCB, $3.00

115 V AC-DC MOTOR, starts at 25 VDC, runs CW approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5"Lx0.4" dia spiraled shaft; 3 lbs sh. #AC-DC-H02, $3.00

Robotics Motors

15 DEGREE STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed & performance w/ driver circuit info. 1x1.3" dia shaft; o/a 5.8"x 1.6" dia, 2 lbs. #RBM-2-62, 2 ohm field, $12.50 #RBM-4-62, 4 ohm $15. #RBM-6-62 5.8 ohm $17.00

15 degree 4-PHASE VR STEP SERVO, 5 ohms 1.5 A/ ; 28 VDC input pulse 3/4x 1/4" dia shaft; o/a 3x3 1/4x3, 2 lbs. sh. Made in Canada; removed from equipment. #20M34C1, $9.95

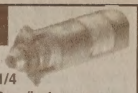


26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4x1 1/4" dia. 2 lbs sh. #SR-215, NEW, $6.95

BOWMAR/HAROWE 12 VDC DUAL SHAFT MOTOR, 2500 RPM no load; 1 amp 2000 RPM 3.4 oz-in load or 1.8 A 1000 RPM 7.4 oz-in. Stall current 2.5 amps. Shaft 1/8" dia. one 1/2"L threaded; other 1/4"L. O/a 2.8"Lx1.3" dia, 1 lb. #1442-009, $8.95

240 RPM 115 V 60 Hz GEAR MOTOR for intermittent use; starts @ 32 V approx 200 RPM. Increased voltage increases torque. Gearhead extends 2.8" beyond motor and has 1.1"Lx1/4" dia shaft. Motor 2.8x2.8x2.4 plus 5/8": x3/16" dia shaft for fan on rear, 3 lbs sh. #MOL-2460, unused, $5.95

Globe 85 RPM



27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with ear. O/a 4x1.3x1.3, 1 lb. GLOBE #5A1231, used, $14.95

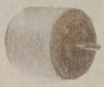
ROWE 6-12 VDC GEAR MOTOR, 40-75 RPM; good for small scale animation projects. Draws approx 250 MA loaded. Shaft 3/8"Lx1/8" dia w/ flat. O/a 2.5"Lx 1.4" dia. 1#. $500-6-12, NEW $4.50

AUTOROL MODEL 200 TIMING MOTOR, 5.4 VDC 19.9 RPM; draws about 100 MA with good torque. Shaft 3/8"Lx1/8" dia with flat; o/a 2.5":x1.8" dia. 1 lb. #200-266A, NEW, $4.75

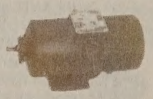
160 RPM DRIVE UNIT w/ clutch has Globe C-25A512 27 VDC 15000 RPM motor and clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia x 1/2" lg shaft. O/A 3 1/4x 4 1/4x 3 1/2, 3 lbs. #160DRV/618 used $8.95

200 RPM 1/7 HP

BODINE AC GEARHEAD MOTOR 200 RPM 1/7 HP 35 in/lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3"Lx 5/8"dia w/ 3/16" square key. O/a 8.5"Lx5.6" dia; 14 lbs sh. #ECCI-35E200, used, $28.95

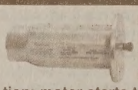


INDUCTION MOTOR, Eastern Air Devices J71-B, 115 VAC 60 Hz 0.25 amp input for 1/40 HP 3100 RPM output. Quiet running; good replacement motor for blowers. 3.1"x3/5" dia. shaft 0.9"x0.3"dia; 3 lbs. #548-2239, new, $6.00
4 mf CAPACITOR for above motor, $2.00



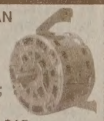
#A7155 DELCO DC MOTOR, 28 VDC 2..4 A 1/30 HP 3600 RPM. Size: 5 1/4"x 2 1/2" dia; shaft 1" x 1/4" dia, 2 lbs sh. UNUSED, $4.95

Multi-Speed PM



MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.033 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.6" dia collar; geared shaft 0.6x0.4" dia. 3 lbs. SPERRY #2960031, used, $8.95

225 RPM Fan Motor



GENERAL ELECTRIC REVERSIBLE FAN MOTOR, ball-bearing 115 VAC 60 Hz 1 amp 225 RPM motor. Use with fan blades unless cooled by other means. Has mount flanges and 5 mf capacitor; 4.5"Lx5.5" dia + 1.5"L x5/8" dia hollow shaft, 11 lbs. #5KCP39EGH210, NEW, $15.

1/4 HP 12 VDC

DUNRITE 12 VDC PERMAMENT MAGNET 1/4 HP MOTOR, 5300 RPM cont-duty; 12 inch-lbs of torque. shaft 7/8"L x 5/8" dia both ends w/ pinned gears. 4.9x9x4.5. 13 lbs sh. #6294355, NEW, $35.00

Selsyns & Synchros

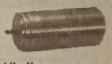
AY-201S-2B SELSYN TRANSMITTER, size 15 26 V 400 Hz input; output 11.8 V. Shaft 0.1" dia X 0.5"L; o/a 2.1"Lx1.4" dia. NEW, $17.50

AY-231 or equal DIFFERENTIAL SELSYN, 400 Hz 3 phase 11.8 V 1:1; 1.5"Lx1.5" dia. USED, $4.50

1HCT-MKII CONTROL TRANSFORMER 90/55 V 60 Hz; 3.6"Lx2" dia. 2 lbs. sh. USED, $20.00
15CX4 CONTROL XMITTER 115 V 400 Hz , used $5.
23CT6 TRANSFORMER 90/1V / degree 60 Hz, $12.
23TR4 RECEIVER, 115 VAC 400Hz, used $10.00
23W4-702 RESOLVER, 0-30 V 400 Hz, unused $10.

2J1H1 SELSYN DIFFERENTIAL GENERATOR operates @ 57.5/57.5 V 400 Hz or @ 26 V 60 Hz. 4.3"L x2.3" dia, 1 lb. USED-less connector caps, $7.00
2J1G1 CONTROL TRANSFORMER, use in pairs @ 24 V 60 Hz for position indication. With caps, $18.

SPERRY R5663478 SYNCHRO REPEATER PAIR, operable on 24 V 60 Hz; each 3"Lx2.5" dia + 3/4"Lx1/8" dia shaft. USED, $30.00/pair.



TACHOMETER GENERATOR, motor 265 V 400 Hz 2 phase: generator 18 V 400 Hz 0.3V/1000 RPM. No load speed 10000 RPM. 2 1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95

PHASE SHIFTER, unsymetrical resolver; rotor 1 phase 5 V 30 Hz. stator 2 phase 5 V 30 Hz. 1.4" dia x 2"L. #PS-17-E-1, used, $10.

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SPERRY MARINE INDICATOR MARK XX MOD.2, part of shipboard gyro-compass repeater system. Has 8" dia 360 degree scale in 1* increments under glass and uses two Size-5 115 VAC 60 Hz selsyn transmitters. One drives inner directional indicator; second outer degree scale. With 7 ft cable & special connector; 10" dia X 8.5"D; 36 lbs sh. UNUSED, $250.

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UNITED STATES NAVY SYNCHROS, Description and Operation, a copy of Publication #OP 1303 printed April 1958; 100 + page primer about selsyn/synchro theory and types. $12.50

PRINTER MOTOR ASSEMBLY, 24 VDC 60 Hz geared to about 4 RPM; can be wired for clockwise or CCW rotation. 2.8x2.5" dia motor on 3.8" sq metal plate; 2#. #MIZ-M0375R, used $3.95; 3/$10.

Globe Motors

GLOBE 27 VDC MINI-PM MOTOR, p/o Collins 6I8T P-A; splined shaft 1/4"Lx1/8" dia; o/a 1.7"Lx0.9" dia. #41A205, used, $7.50
GLOBE 27 VDC 1/100 HP MOTORS, 2.5"IX1.3" DIA
#C-25A201, 8000 RPM, p/o T-195, used, $7.75
#C-25A686, 11000 RPM, p/o ARC-45, used $7.95
#C-25A512, 15000 RPM, p/o 180L, used, $8.00

200 RPM 6 V

24 VDC PM MOTOR, will run from 6 to 30 VDC @ approx 200 RPM per 6 V. 5/8" dia shaft is 2"L one end, 5/8"L on other. O/a 10"Lx3.8" dia, 16 lbs. #DH-4000-AD7 (or equal), USED, $35.00

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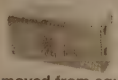
MORE DC PM MOTORS, similar style & size as DH-4000 above; shafts one end. Good for low power wind generation experiments. "No load" ratings:
#36V-116289, 36 VDC 400 RPM 0.5 A; shaft 2"L, $30
#60V-115810, 60 VDC 900 RPM 0.5 A; shaft 3"L, $37
#72V-116249, 72 VDC 600 RPM 1 A; shaft 1.8"L, $45

HV Capacitors



ENERGY STORAGE CAPACITORS Non-PCB, removed from equipment; 10"H x 4.5"Wx3.5"D, 10 lbs:
32 MF 4500 VDC, $30.00
88 MF 1200 VDC $17.50
224 MF 1500 VDC, $27.00
8 MF 4000 VDC case ground; 8.3x3.5x2, 7 lbs. $10.00

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AC CAPACITORS

2 x 100 MF 240 V, 10"H x 3.5"Wx1.8"D, 4 lbs sh. $12.
7.5 mf 260 V, 2.8x2x1.3, $2.00
10 mf 370 V, 2.8x3x1.8; 2 $3.
20 mf 330 V, 2.8x5x1.8; 3 $4.
50 mf 370 V, 10x3.5x1.9; 4 $8.
10 mf 440 V, 4x2.8x1.8; $3.50
35 mf 440 V 9x3.5x1.8; 4 $7.
5 mf 500 V, 4.5x2x1.3, $3.00
27 mf 700 V, 9.3x4.3x2.7, 8 lbs sh; Captron. $7.50
5 mf 1000 V pk 2.8x6x2 $3.50

MOTOR-START CAPACITOR, 50-60 mfd 330 VAC plastic enclosed electrolytic; 4.4x2" dia. #MSP-77725, $2.25 ea

SPRAGUE JX FILTER 0.1 mf 2500 VDC; 4x1. #S3312, $2.
0.1 MF 3500 V C-D mfg $2.50

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NON-PCB DC CAPACITORS
1 MF 2000 VDC, 2.4x4.2x1, 1 lb sh. NEW $4.50

RF Capacitors

CENTRALAB 850-TYPE "doorknob" capacitors, 0.5"H x0.8" di; USED, $6
SPECIFY: 30, 50, 75 pf (7.5 KV); 100, 120, 140 pf 5 KV
TYPE 858, 1000 pf 5 KV, $8.
857: 15 KV 40 or 50 pf $10.

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0.004 MF 20 KV, 2.4" dia X 0.6" H. #N4700, NEW, $17.

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MICA CAPACITORS

JAN CM-size < 1.8" x1.6". USED, $1.25:

MFD	WVDC	CM
.02	600	55
.033	600	55
.005	1200	55
.012	1200	55
.0004	2500	60
.00022	3500	55

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CM55 .001 MF 2500 WV. $2.
CM65 .0062 2500 $3.50
.002 3750 $5.

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F1L-size MICA, 2.8x1.5x1:
0.006 mf 2500 WVDC, $4.00
0.0001 mf 3000 WVDC, $4.00
0.0007 mf 3000 WVDC, $3.50
0.00013 mf 5000 WVDC, $4.50
F3L 0.007 mf 500 VAC, $7.50

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ERIE 1202 EMI SUPPRESSION CAPS, 1 KV ; used: 1000 pf $.75; 7000 pf $1. ea

COMPUTER GRADE

MFD	V	SIZE	P
23000	7	5.5x1.5	$.60
61000	10	4x2.5	1.50
100000	10	5.5x3	2.25
28000	15	4.5x2	1.50
5200	20	3.5x1.4	.75
58000	20	6x3	1.60
43000	30	4.5x3	2.50
54000	30	6x3	3.00
37500	35	6x3	3.25
19000	40	4.5x2.5	2.50
51000	40	5.5x2.5	3.50
60000	40	5.5x3	4.50
120000	40	9x3	12.00
4900	50	3.5x1.5	2.00
3500	55	4x3	1.50
5000	75	4x2.5	2.50
10000	75	4x2	4.00
14000	75	6x3	4.25
1250	180	4.5x2.5	2.00
500	200	4x2	1.65
360	250	2.3x2	1.75
10000	300	9x3	25.00

Buy 5 or more one type and take 20% OFF PRICE!

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Electrolytic (E)/ Paper (P)

2500 mf 3 V (E) 3.5x1 6/$1.
6800 mf 16 V axial, 4/$1.
10 mf 30 V axial tant 3/$1.
4.7 mf 35 V drop tant 3/$1.
1000 mf 35 V axial, 3/$l.
500 mf 50 V axial, 3/$1.
1500 mf 63 V axial, 2/$1.
1 mf 100 VDC metalized 2/$1.
250 mf 150 V axial, 2/$l.
0.033 mf 200 V metalized3/$1.
4.32 mf 200 V mylar, $.60
2 mf 200 V metalized, $.55
3x20 mf 3x250 V (P) $.80
0.047 mf 400 V mylar, 4/$l.
0.1 mf 400 V axial, 2/$l.
0.5 mf 400 V metalite, $.75
30/20/160/40 mf 450/450/250/150 V, 3.5"Hx1.3" Arco $2.50
4 mf 600 V pole-type; 5.5"Hx 1.5" dia, used $4.
2 mf 1000 V pole-type ; 5.8"H x1.5" dia. used, $3.00
0.01 mf 630 V mylar, 4/$1.

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1KV DISCS: 7/$1. l00/$6.
0.0001, 0.0002, 0.002 mf

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DIPPED MICA CAPS, +/10%
100 v; 3/$1. pf: 18 22 27 33 82 150 220 470.
2 f/ $1.00: 750 1000 1200 PF
* 1800 pf 300 v. $.85 EACH *

Stand-Off Spacers

STAND-OFF HEX SPACERS male-female thread or female-female (f-f) :

Length	per 20	per 100
4-40 threads 1/4" dia metel		
0.75"	$4.25	$12.50
1.375	$5.50	17.00
6-32 threads 1/4" dia metal		
0.375	$3.00	$10.00
0.625	$3.50	12.00
0.75	$3.75	12.50
1.5 (f-f)	$4.25	14.50
8-32 threads 7/16" dia:		
3.0	$7.00	21.00
1/4"-20 threads 9/16" dia:		
3.25 (f-f)	4/$2.50	20/$10.
1/4"-28 threads 7/8" dia:		
2.87	4/$3.50	20/$14

U-106 TERMINAL POST "push" spring-loaded; silver-plated. Threaded 1"; o/a 1.9". USED, $1 ea.

Rotary Switches

DAVEN-TYPE 18-POSITION, continuous turn; 2" dia. Zinc-silver contacts. 1/2x1/4" dia shaft. #3Z9825-92.2, $3.00

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1-POLE 17-POSITION, 2-1/4" dia bakelite; 3/8x1/4" dia shaft. #PA3001, $1.95; 2/$3.

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FIVE-DECK ROTARY, each 2-pole 4-position; bakelite. 4x1.6" dia; shaft 1/2x1/4" dia #SW-RM39, used, $1.25

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MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware #LED-M13-S, unused, $.75

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ROTARY SWITCH 2-DECK 5-POS w/ OFF-ON switch; two SPST 8 A 125 V. 2.8"x1.5, 1/4" dia shft. #2D5PSW $3.

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MALLORY NON-SHORTING ROTARY SWITCH, unused: #3243J 4-ckt, 3 pos., $1.50

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SINGLE-POLE 9 pos phenolic rotary. 3/8" x 1/4" dia shaft O/a 1.5x1.1. #467MX, $1.50

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3-POLE 4-POSITION, #4-pos momentary; 1" dia bakelite. #SW-PRC-10, unused. $1.00

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MINIATURE TAP SWITCH, 1 pole 7-position rated 1 amp 1x1/2". Grayhill 7 pos $2.00

18-POS 1-POLE NON-SHORTING w/ external auxillary 3 A low-voltage contacts that "make" for 180° of rotation. 2.3x1.8x1.6, 1/4" dia shaft. #258-5352, $3.00

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THREE DECK 7-POSITION TAP SWITCH w/ screw terminals; 10 amp shorting contacts. 1.8x2.x3.1 + 1.3" x 0.3" dia shaft. #ES32303LM, $3.50

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CERAMIC ROTARY, 2-deck, 4-break 3-make; 4.3"Lx2" dia w/knob. Unused #746910G1/407, $7.50

TECH-LAB precision, 4 pole 7-position w/ gold-plated contacts; 2-poles 5 amp & two 3 A. Shft 1"Lx1/4" dia; o/a 2.3x2.3x2.5, 1 lb. #TL-4P7PS, USED, $5.

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ROTARY SWITCH KIT, six types: multideck & contacts, $2.00

TERMINAL LUGS, ring spade, crimp types. Variety of sizes for all uses in box. Approx. 200 pcs. $3.00

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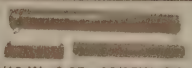
HARDWARE ASSORTMENT of washers, screws, rivets, nuts, terminals; 2 lbs. $2.00

RESISTORS



5/10 W. $.25: 20/25W $.35
5 WATT: ohms l0, 50, 100, 350, 500, 2000, 5000, 7500 12500, 15K
10WATT: 0.33, 2, 10, 84, 1000, 2000, 2500, 3500

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20 WATT: 200, 630,

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25 WATT: 0.33, 100, 1K, 2K

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2.5 OHM 50 WATT, $1.00
10 OHM 31 W, Dale 5%, $.60
15 OHM 95 W, Dale 5%, $1.00
20 OHM 47 W, flat, used $.65
22 OHM 53 W, Dale 5%, $.85
25 OHM 50 WATT, $.75
1300 OHM 53 W flat-used $.65
1600 OHM 43 WATT, $.75
2000 OHM 43 WATT. $.75
3000 OHM 68 WATT, $1.00
20K OHM 53 W flat-used, $.75

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WATT	OHM	L x Dia	PRICE
100	50	6.3"x0.8"	1.50
100	200	6.3"x0.8"	1.25
100	750	6.5"x1.3"	1.25
175	2	6"x1.3"	2.00
225	25	10.5" x1.6"	3.50

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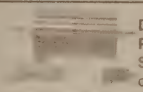
FERRULE CLIP-ON MOUNT:

2.5	2..5M	5.4"x1.4"	2.50
90	800	7.5"L x1"	1.50
90	35K non-induct		3.00
120	7K	9.5"x1.3"	1.75
140	11	11.5"x1.2"	2.00
203	82	11.5"x1.2"	2.50



DALE (or =) POWER RESISTORS, chassis mount metal:

OHMS	WATT		PRICE
l.96	30	1%	$2.00
39	15	1%	$1.00
43	250	3%	$4.50
47.5	75	1%	$2.50
50	20	3%	$1.25
250	50	5%	$2.00
710	20 non-ind		$2..00
1400	120	1%	$3.50
3000	25	1%	$1.25

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PRECISION RESISTORS, most +/-1%; $.30 EA
1.5 ohm 3.0 w +/-5%
5 ohm 0.33 watt
225 ohm 0.25 watt
600 ohm 0.25 watt
4K ohm 0.50 watt
10K ohm 0.50 watt
30K ohm 0.33 watt
l00K ohm 0.25 watt
330K ohm 0.50 watt
l.04M ohm 0.33 watt

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0.33	3	1%	$.50
28K	0.25	.05%	$.40
5IK	0.5	0.1%	$.40
1 MEG	15	5%	$3.00
l0 MEG	20	3%	$5.00
l5 MEG	10	3%	$2.50

RESISTOR BANK

DALE 70 WATT 5% 6- RESISTOR BANK, two ea 4 & 7 ohm. one ea 6 & 8 ohm; 6"L x 3" H. #R6X70W $4.50

SLIDE RESISTORS

with variable slide adjust:
1.5 OHM 110 WATT, $2.50
2 OHM 25 WATT, $1.00
4 OHM 25 W + 4 fixed $.75
15 OHM 50 WATT, $1.35
20 OHM 25 WATT, $1.00
25 OHM 75 WATT, $1.50
30 OHM 200 WATT, $3.00
50 OHM 50 WATT, $1.35
50 OHM 160 WATT, $2.50
100 OHM 150 WATT, $2.50
250 OHM 100 WATT, $2.25
250 OHM 200 WATT, $3.00
500 OHM 160 WATT, $2.50
1000 OHM 20 WATT, $1.00
1000 OHM 125 WATT, $3.50
2500 OHM 25 WATT, $1.00

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MULTI-SECTION RESISTOR, 750-23-23-7500-3000 ohm sections; total 11296 ohms. 8.2"L x 1" dia, $1.50

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WARD LEONARD ENCLOSED 40 OHM 300 W vari-resistor: 600 V max. Fits 0.5" dia shft. 3"H x 6.5" dia. #2130-40, $14.

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PRECISION RESISTORS KIT, 25 asst. Carbon or wire-wound 1% $1.50/ kit

RHEOSTATS

First set of numbers after RHEO- prefix is wattage; your choice of ohms is second set. SCD= screwdriver adjust type. Style varies; USED or UNUSED:
#RHEO-25W (ohms), $1.50 ea
6-scd 7 35-scd 50 60-scd 75 100 175 200 250 350 400 500 600-scd 800 1500 2500-scd 3K 6K 10K-scd 20K
DUALS $2.75: 2x125, 100/500
#RHEO-50W (ohms). $2.25 ea
5 8 12 16 18 25 30 35 200 225 300 375 2500.
DUALS. $4 ea: 16 20 35:
DUAL 50/25 W 800/500. $4.
#RHEO-100W- 20 1K 2K, $4.
#RHEO-150W 2 ohm. ~~$5~~ $3.50
-150W 35 350 750 $5.
#RHEO-225W- 3 ohm ~~$6.50~~ $4
#RHEO-300W 3, 6, 50, 75 or 350 ohms; 3 lbs sh. $8 ea
#RHEO-500W 3 ohm, 6#, $13.

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POTENTIOMETERS

ALPS or = with switch; 5/8" dia + term. Shaft 1/4" dia:
10K, 50K or 100K, $1.00 ea
CENTRALAB #WN-100-10. 10 ohms linear taper, $.75 ea
CLAROSTAT #RV4NAYSJ503, 2 WATT 50k ohm, NEW 2/$1.

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10-TURN PRECISION POTS, 1/4" dia shafts:
#A-R100-L25, 100 ohm 2.8"Hx1.8"dia. $6.95
#SA1400- 30K 0.1%, used $4.
#MD-A-1K ohm, USED, $4.50
#731A-R50K-L.5, 3-turn 50K ohm 5%; 2"Hx1.8" NEW. $6.
#RB-DUODIAL, 10-turn vernier for Helipot's*, used $6.

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#3441H 10K OHM POT, 6-turn counter dial; 1.9"L x0.8" dia, used, $5.

TRANSFORMERS

All 115 VAC 60 Hz primary unless otherwise noted; styles as indicated; may be "used" or "unused":

Styles (A) (B) (C)

Low Voltage Transformers

SECONDARY SIZE WT STOCK # PRICE

2.7 V 10 amp 3.8x6.2x3(A) 10 #SMB202908 $8.95
two 5 V 2.1 A, 6,4 V 3.8 A
2x 5 VCT 3 A 3x3.3x3.4(C) 7 Stancr #P-6333 $9.95
7.5/6.3 VCT 3 amps, 6.3 VCT 4 A

6.3 V 3 amps, 3.8x4.8x3.5 (A) 6 #TF1AO1JA $6.95
6.3 V 2.5 A, two 5 V 2 A
6.3 V 3.6 A 3.1x3.5x3.9 (A) 4 #762806 $4.50
two 15 V 4 ma
6.6 V 18 amps 3.5x5.5x4 (A) 14 #9T35Y159 $6.95
6 V 2 A or 3x2.3x1.5 (C) 2 Stancr #P6375 $3.50
12 V 1 amp

10 V 4 amp, 3x4x3.5 (C) 7 #BE-12696 $4.95
18 V 1.5 A, 19 V 2.5 A
12.5 V 2 amps 3x3x2.5 (B) 2 #FR-24960 $2.95
12 V 9 amp, 5.3x4.3x4.8(C) 22 #P-601719 $8.95
12 V 3.2 A, 12 V 2 A, 44 V 2.5 A. (12 V windings can be wired to produce 12 V 14 A)
15 VCT 3 amp, 2.5x3x2.5 (C) 2 #TRA-1577 $3.95
16.5 VCT 2 amps 2.6x2.5x2 (C) 2 #BE15869 $3.95
18 V 4 amp 2.5x3x2.8 (B) 4 #SK-710202 $4.95

22 V 18 amps, 5.3x6.3x6 (C) 33 #7213-4112 $24
40 VCT 8 amps
24 V 2 A, 6.3 V 100 ma 3.5x3x3 (C) 4 #LT-646 $5
24 VCT 3 amp 4.5x3.8x3.3(B) 8 #KAL-2334 $5.95
40 VCT 575 ma, 105 V 350 ma
26.8 VCT 1 amp 2.5x2x2.3 (C) 2 #401-17 $3.00
27 VCT 2.2 amps 2.5x3x2.3 (C) 4 #4462 $4.50

30 VCT 560 ma 2.5x2.3x2 (C) 2 #401-6 $3.00
40 VCT 450 ma
31 V 5 amps, 3.5x4x3 (B) 8 #TI-723 $7.95
39 VCT 2 amps
32 V 5 amps 3.3x2.8x2.3 (C) 4 #X5157308 $5.95
36 VCT 2 amps 2.9x3.5x2.3 (B) 3 #SR-448 $4.95
38.9 V 4 amp 2.6x3.8x3.5(C) 5 #021/0220050 $7.50
tapped 26-9-3-0.9 V, 150 VCT 200 ma

40 VCT 1 amp 3.3x2x2 (B) 2 #URC56000 $2.95
40 V 2.5 amps 3.3x5.3x3.8 (A) 10 #43278 $4.95
6.3 V 1.5 amps
40 VCT 9 amps 5.3x6.3x6 (C) 3 #7213-4112, $24
22 V 18 amps
42 VCT 2.5 A 6.3x5.8x4.8 (A) 14 #253-2539 $8.95
2 VCT 12 amps

50 VCT 3 amps 3.3x3.8x3.8 (B) 8 #EMC-56 $5.95
52 VCT 2.6 amps, 3.2x3.8x3 (B) 6 #EIA606-451 $7
tapped 33 and 18 VCT
70 VCT 5 amps, 4.5x4.8x4 (C) 16 #401-21 $8.95
tapped 20 VCT; 18 V 5.4 A, 26 V 1 A, 6 V 500 ma
80 VCT 1.5 amps, 3.8x3x4 (B) 8 #3S92890015 $5
22 VCT 3 A

High Voltage

SECONDARY SIZE WT STOCK # PRICE

375 VCT 50 MA 2.5x3x2.6 (B) 3 #8316527 $5.50
6.3 V 2 amp (230 VAC only primary)
400 V 150 MA 4x6.5x3.5 (A) 9 #BP18586 $7.95
570 VCT 40 ma 3x4x2.6 (A) 4 #T6/TA182 $7.50
450 WV; 220 VCT 65 ma (int), 6.3 VCT 3 A
700 VCT 70 MA 3.5x5.1x3 (A) 8 #HSM-205 $12.50
6.3 VCT 3 amps, 5 V 3 A Triad mfg
820 VCT 100 ma 4x5x4.4(A) 14 #T1/TS382 $10.95
5 V 2 amp, 6.3 V 2.5 A, 6.3 V 1.25 A
840 VCT 75 ma 3.9x4.5x3.5(A) 9 #DP-7421A $8.95
6.3 V 2.7 A, 6.3 V 1.5 A, 7.3 V 1 A
2600 V 120 ma 5.9x7.4x4.8 (A) 26 #BP-18584 $20
tapped 1600 V

AUDIO TRANSFORMERS

#314/RM-13, 40 :75K ohms; 2.3x3x1.9(A), 1 lb. $4.50
#315/RM-13, 15K : 60 ohms; 2.3x2.8x2(A), 2#. $4.50
#677N254, 4000 ohms CT: 200/50/12.5/3.12 ohms; 300-4000 Hz, 1.9x2.3x1.8 (A), 1 lb. $4.50
#T1/AM20 OUTPUT TRANSFORMER, 9000 ohms CT: 600/250/125/60/30 ohms, 20/30 watts 50-10000 Hz; 3.4x4.3x3.1 (A), 6 lbs sh, $18.00
#T3/AM20 INPUT TRANSFORMER, 100 ohms :100K ohms; 2.3x4x2.3 (A), 2 lbs sh. $6.00
#T2/SG-15, 13000 ohms CT : 25/1000 ohms CT, 200-35 KHz; 3x3.5x2.5 (A), 3 lbs sh. $5.00
#T1/LS166, 600 ohms to 8 ohms 2 watts; 1.6"H x1.3" dia (A), 1 lb sh. $9.50

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TRIAD TRANSFORMERS

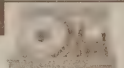
#TY-74S for transistor inverter having 12-14 VDC input: output 600 VDC 200 MA FW-bridge. 2x4x2.5. 3 lbs. NEW w/ info, $49.
#TY--61X TRANSISTOR DRIVER 100 ohms 100 ma : 100 ohm CT, 50-10KHz 500 mw. 2.7x1.5x1.5. $4.00
#TY-65Z MODULATION Pri: 32 ohms CT 575 MA DC Sec: 4K-6K ohms 10 W. 2.7x2.4x2, 2 lbs. USED $5.

CHOKES

#WE1060A, 2 mH 15 A, 0.14 ohm DC res. 3.8x4.3x3.3 (A), 8 lbs. USED, $9.95
#292-5998P1, 100 mH 6 amps DC 0.75 ohms DC res. 175 WV; 4.4x6x4.2 (A), 20 lbs. UNUSED, $15.
#L601/390A, 6 Hy 150 MA 125 ohm 535 WV; 2.3x2.9x2 (A), 3 lbs sh. USED, $10.00
#L1/AM6154, 8 Hy 300 MA 160 ohm 2260 WV; 3.5x3x3.3 (C), 5 lbs sh. USED, $15.00
#L2/AM20, 15 Hy 5 ma 400 ohms; 1.9"Wx3"Hx1"D (A), 1 lb sh. USED, $4.00

#SMD-422745, 4 Hy 400 MA 70 ohm 450 Vrms; 3x3.8x3.3, 6 lbs sh. USED, $7.00
#SMD-422768, above but 300 MA, $6.00

TORROIDAL



TORROID TRANSFORMER has DUAL 24 VCT 8 AMP outputs from 115 V 60 Hz input. Chassis 2.3x8.8x5.6; Torroid 4.5 dia X1.5"H; 8 lbs sh. #BC-24V-ASSY, $24.00

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28 V 6 AMP TRANSFORMER on chassis with On-Off switch & line cord for 115 VAC input. 5.5x2.8x3.5, 6 lbs. #LR80498, used, ~~$9.95~~ $8.50

ISOLATION

DUAL PRIMARY, each 100/110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A: and 16 V 1.5 A -0-16 V 1 A. Mounted on board with AC socket, fused secondaries, diagram. Xformer 5.5x4.5x4, 20 lbs. #97313, NEW: $12.95 ea; 2 f/ $22.

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#A762101 ISOLATION, pri 115/230 V 60 Hz; sec 105 VAC 1 amp 2.2x2.6x2, 3#. NEW, $6.95 ea: 2 for $12.

AM-6154 PLATE TRANSFORMER, p/o VHF/UHF power amp. Pri: 105/120/210/240 V 47-440 Hz. Sec: 1752 V 270 MA: 20 lbs. #T1/AM-6154, used $45

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T-368 HV TRANSFORMER Pri: 115 V 60 Hz Sec: 6336 VCT 500 MA, 7500 V insulation; 10.5x10.5x9, 90 lbs. #T9/T368, used, $85.00

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TEKTRONIX LOW VOLTAGE TRANSFORMERS from 500-Series scopes; 16 lbs. USED, $25 each:
#120-037, p/o 535/545 #120-120, p/o 535A/545A
#120-0141, p/o 585A #120-0344, p/o 545B
HIGH VOLTAGE SUPPLIES from above: WRITE !

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DELTA TRANSFORMER, Pri: 220 V delta 3 phase 400 Hz. Sec: 1510 V "Y" 500 MA 3 phase; produced 2000 VDC for 1 KW xmitter. Usable with some automotive alternators to run high voltage equipment. 4x4.5x2.5, 5 lbs. #T1/T730, used, $20.

ELECTRON TUBES

UNUSED in original military or commercial boxes:

1N5GT RCA $3.50 1U5 GE, RCA $4.50
2C39A, $25. 2E26 RCA $6.00
2K25 Raytheon, $40. 3B28 various, $14.00
3TF7/RT510 $17.50 3V4 ECG, $5.00
4CX300A/8167, ~~$65~~ $45 4CX5000J Eimac, $650.
4D32 Raytheon, $35. 5U4GB $7.50
5Z3 $6.00 6AF6 "eye" $9.00
6AJ5 Tungsol, $3.50 6BL7GTA GE $4.00
6B4GA Sylvania (does not test like 6B4G), $17.50
6BN8 ECG $4.50 6CA7/EL34 Sovitek $9.
6CB6A RCA, $3.00 6CW4 RCA, $8.50
6DC6 various, $7.50 6DK6 GE, $3.00
6DQ5 various, $7.50 6EB8 GE, $4.50
6EJ7 England $3.00 6GW8 (German) $6.00
6L6GC Sovitek, $4.25 6SC7 GE $4.00
6SG7 RCA $3.00 6SK7GT various, $4.00
6U8 Sylvania $4.00 12BE6 GE, $3.25
33, 34, 35, 36, 38, 39/44, 49, 57, 78, 79 or 89, $4.50
47 various US, $6.50 954-955-956 acorn $3.50
1616 or 1619, $5.50 1625 Nat-Union, $4.50
1629 "eye" tube, $11.00 5675/4042, ~~$24~~. $19.
5751 ECG, $3.50 5763 various, $7.50
5814A ECG, $3.25 5876/4043, ~~$24~~. $19.
5998A Syl, $9.95 6000, $25.00
6012 RCA, $25.00 6082 various, $10.00
6146W GE or 6146B Sylvania, $19.95; 10 f/ $175.
6336B Cetron, $40.00 10 for $350.00
6922 ECG (=6DJ8) $3.50 ea; 10/$28. 100/$200
7308 "Amperex " but look Russian, $3.50; 10/$30
7360 ECG, $15.00 8552 ECG, $12.00
7581A (= 6L6GC) ECG $17.50; 10 for $150.00
NUVISTORS: 7586, $10. 7587, $15. 8056, $5.
8058 nuvistor, $18. 8295A Eimac, $350.

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Most "RECEIVING" TUBES available USED-CHECKED, $2.50 ea; UNUSED, $4.50 each. See list for some exceptions. CALL or WRITE for quotes!

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USED-checked (US-mfg): 2E22, $10. 3E29, $9.
4CX350FJ/8904, $35. 4X150A (6 V), $24.
4X150D (26 V), $16. 6SL7WGT brown base $3.
6V6GT/GTA, $3. 12AX7, $2.75 24A or 27, $3.50
26 or 42, $5.50 37, $3.50 80, 83 or 807, $6.50
6072 or 6201, $3.00 6AS7G or 6080W, $4.00
ANTIQUE GLOBE TUBES, used-checked, $7.50 each: 224/324 227/327; UX-201A/301A, $12.50

Pull-Out Sale

POPULAR TUBES

"pulled-out" of equipment-- NOT TESTED/ NOT GUARANTEED! But prices CHEAP when purchased in quantities indicated. (Prices for one tube type per quantity!): 10 for $8.00; 100 for $50.00
1S5 1U4 3A5 3D6 3Q4 3Q5 6AC7 6AG5
6AK5 6AL5 6AS6 6AU6 6AV6 6AU4 6BA6 6BN6
6H6GT/M 6J4 6J5M 6J6 6K7G 6SH7 6SJ7 6SL7GT
6W4GT 6X5 12A6 12AT7 12AU7 5814 5963 5965

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UNUSUAL TUBES for collector's and experimenters; Filaments checked, but not guaranteed.

JAN 705A RECTIFIER, 4-pin base; 5"Hx2.3" dia. USED, $4.00
GL-6044 oversize 6-pin w/ 4 tabs; 5.3"Hx2.3" dia. UNUSED, $5.00

C6M THYRATRON, 8.5"Hx2"dia USED, $4
5J30 GLASS MAGNATRON, 5"Hx2"di, $10

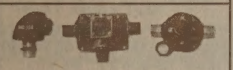
CATHODE RAY TUBES, tested -- no burns:

1EP1 $25.00 3HP7 $ 4.00 5AQP1/31 $40
2AP1 15.00 3JP1 12.00 5BDP7 11.00
2BP1 20.00 3JP12 8.00 5CP1 10.00
3AP1 15.00 4AP10 25.00 5FP7/14 12.00
3ADP1 15.00 4MP1 25.00 5GP1 15.00
3BP1A 15.00 4QP31 40.00 5HP1 15.00
3DP1 6.00 5ABP1 20.00 5JP1 12.00
3E33P7 15.00 5ADP7 30.00 7ABP7 15.00
3GP1 15.00 5AMP2 25.00 7BP7 9.00

CRT for HP180/USM-281A , $45. f/ TEK 453, $85.
f/ TEK'454A, $100. f/ TEK 531-535, $45.
f/ TEK 541-545, $45. f/ TEK 545A, NEW, $65.
f/ TEK 555, NEW, $75. f/ TEK 581/585, $65.
f/ TEK 585A, $75. f/ TEK 7603, $85.

MN-28 Control

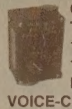
MN-28* REMOTE TUNING CONTROLS for WW-2 MN-26 radio compass. 5.3x7.3x2, 3 lbs sh: #MN-28C, bands 150-325, 325-695, 695-1500 KC. UNUSED, $24
#MN-28LB, 200-410, 550-1200, 2900-6000 KC. USED, $14.95
16-pin Connector, used, $4.
MC124 20" TUNE SPLINE $10



SPLINE TUNE ACCESSORIES
MC-136, right angle, $4.50
MC-203, T--adapter, $7.50
MC-204, in-line tuner, $10.00

BC-631 JACK BOX remote audio control for SCR-522; 4x2.5 x2.4, 2#. NEW $5.

ART-13 Control



C-87/ART-13 CONTROL BOX for ART-13 transmitter. Has 11-position CHANNEL selector, OFF-VOICE-CW-MCW select, PTT button and IC jack. 3.5x6.3 x3.3, 3 lbs. UNUSED, $12.50

ART-13 Speech Amp with tubes; 4 lbs sh. Used $22.00

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C-434 PLUG-IN 5000-6210 KHz TUNING COIL f/ BC-230 transmitter; 2 lbs. USED, $8.00
BC-231 Control f/ BC-229, $8.

BC-347-C INTERPHONE AMPLIFIER, p/o WW-2 RC-34-35-36 intercom. "C" model has 6F8 tube; requires 14 VDC (not 28 VDC). 4x6x2.4; 3 lbs sh. USED, $12.00

Test Adapters

FT-384 TEST ADAPTER, plugs into BC-603/683 (SCR-508/608) receivers & allows voltmeters to align IF-RF amps & Oscillator. Switch DISC-ALIGN-CATH-BATT & 72" battery cables. Connector also fits BC604/ 684 xmitter. 2x5x3.1, 4 lbs sh. UNUSED, $18.95

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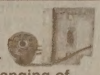
CONNECTOR fits BC-603/683, BC-604/684; not original #, #DPDSA32C3233S2L used $9



M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows changing of crystals and alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs sh. $5.00
M-394 Adapter f/ BC-620, $5.

TUNING UNIT

BC-746 TUNING UNIT, plugs into WW-2 BX-745 (SCR-511) "pogo stick" radio to set FT-243 xtal channel Rx-Tx frequencies. Specify channel #; 4x2.8x1.3, 1 lb sh. USED, $4.00 each

Channel	Tx	Rx
#6	5880 KC	6335 KC
#12	5030 KC	5485 KC

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TELESCOPING ANTENNA for BC-745/SCR-511, unused $18.

BC-1361 SWITCH BOX, p/o RC-298 interphone kit for SCR-528/628 radios in Sherman tanks. With Call light, Field-phone terminals, On-Off & Signal switches; 6.8x5.4x2, 4 lbs sh. UNUSED, $8.00

RF CHASSIS

f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid. RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725: requires 6.3-12.6-108-250 VDC. 3.5x3.5x10.5, 5 lbs. With schem. #RF100-RA-18, $10.

Carrier Monitor

used for remote check of xmitter operation. Good parts including 600 VDC 35 ma transformer; tubes 0A2, 6AL5, 6J6, 6X4; 600:600 ohm AF xformer, DPDT & SPST toggle switches two 49 pf trimmer caps, etc. LESS 3 pf 15 KV vacuum capacitors 6x8.5x6.3, 12 lbs sh.
#CAR-MON-87, unused, $5.95
#CAR-MON/VC, above with vacuum capacitors, $14.95

SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8 x4.5, 3 lbs sh. USED, $15.00
SB-329/ARC SIGNAL DISTRIBUTION BOX, UNUSED $16
SA-474/AR SWITCH BOX, $7.

RM-52 REMOTE CONTROL for radio and intercom set. Has transformer, mic & phone jacks. Source for "Macy's Phone Patch" project. 7.3x3.5x5, 5 lbs. USED, $4.

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ALIGNMENT TOOLS for BC-620/659: TL-150 or TL-207, $5

MINIMUM ORDER is $10.00 ($25.00 outside U.S.) + shipping charges. Minimum charge on approved U.S. open-accounts is $20.00 + shipping $. COD orders permitted at our discretion, if customer provides 50% of total cash deposit. UPS COD fee $5.
10 DAY RETURN POLICY: Customer may return items for refund of purchase price of the item within 10 days of receipt of order. Authorization for return required!
DAMAGED MERCHANDISE: Claims must be made within 10 days of receipt.
Fair Radio reserves the right to repair, replace or refund at its discretion such merchandise. Unauthorized returns & claims beyond the 10 day period are subject to 15% or $5.00 (whichever is greater) restocking charge. Returns and claims will not be accepted after 30 days of receipt of order!

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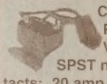

CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; 20 amp. 2x1.8x1.1; 1# #81-2450-1, $3. I0/$24.

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SIEMANS CONTACTORS, 80 VDC coils, 2 lbs. NEW: #3TH8262, 6 NO+2 NC contacts 220/660 V 10/2 A; 5x1.4x3, $15. #3TH12022 2 NO+2NC; contacts 230/600 V 3/1 amps. Aux contact 10A 240 VAC; 2.8x1.8x1.8. $6.50

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8PST CONTACTOR, rated 660 VAC 6 amps; coil 80 VDC. 3x4.5x1.8, 2#. Schindler #MRG-44E, NEW, $14.95

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24VDC CONTACTOR, SPST n.o. 28 VDC 50 amp contacts; 27 ohm coil. 2.5x2.7 x1.8, 1 lb. #MS24166-D1 $4.75

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4PDT RELAYS w/ 10 amp contacts; 2x1.8x2. USED: #DOX-137T, 24 VDC 230 ohm coil, $2.95 #DOX-187 , 110 VDC 5000 ohm coil, $2.25 ea

Sensitive Relays

SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x 2.2x2.3 1lb. #RM39/1901, used, $1.50

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Sealed SENSITIVE RELAY, 50 ohms 28 ma coil; DPDT contacts. Solder hooks; 1x1x2 1/4. #R400-2B-50 $2.95

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ULTRA-SENSITIVE P&B 6 VDC DPDT RELAY, coil 500 ohm res. < 40 mv nom. power. Contacts rated 2 amp @ 28 VDC/120VAC; solder or socket mount. #R10-E1Y2SS500, NEW $3.50

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10-BLADE RELAY SOCKET for track mount of above; pressure screw terminals; 2.8x1.4x2., 1 lb sh. Weidmuller #RS, new,$2.50

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P&B 4PDT RELAY SOCKET w/screw terminals, Rated 5 A 300 V max. #27E166, NEW $3.

HIGH VOLTAGE RELAY p/o T-368F xmitter; SP-NC 2500 V DC 500 ma & SPDT 500 V 10 ma. Sealed; 3.8x5x3.3, 2 lbs. #K3/T368F, used, $22.00

OPEN FRAME

OPEN FRAME RELAYS with heavy 10 amp silver contacts; micalex insulated. 1.8x2.4x1.8, l lb sh. USED-CLEAN: #22-4383 DPST NO, coil 115 VAC 60 Hz 400 ohms, $14. #22-4384, DPDT, coil 6.3 V AC 1 ohm, $16.00 #K104/HRX-1, DPDT ceramic, coil 28 VDC, NEW, $15.00

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12 VDC 2PDT OPEN FRAME RELAY, 96 ohm coil with 24 VDC/ 120 VAC 5 amp contacts; 1.2x1.9x1.2. NEW: SIGMA #50F212DC, $2.50

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MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohm coil; Open frame; 1.8x1.3x1. #88X-150A, NEW, $2.50

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. For solder or socket connections. 1x1x3/4. NEW, $1.50 each. 24/$25.00

GUARDIAN DPDT 115 VAC 1/4 HP 10 A; solder terminals, plastic case. 1.5x1.8x1.3. #A410-361342, NEW, $2.50

Plug-In Relays

3PDT 24 VDC coil with 120 VAC 10 A contacts; plug-in type with socket. #KUP14D15, $3.00

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DPDT 12 VDC 800 ohm coil, 2 A cont; socket or solder. #R10-E1-Y2-S800, NEW, $3.

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P&B KR-4175-1 DPDT PLATE RELAY; sealed metal can, requries octal socket. 2.5x1.5x1.4, unused, $2.00

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OMRON 3PDT RELAY, 24 V DC 650 ohm coil; 2 A contacts. 11-pin plug-in/solder lugs. 1x1.5x0.8; #OM-MY3, $2

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3PST 120 VAC coil, 10 amp 1/4 HP contacts; clear cover, w/socket. P&B KU-4666 $3.25

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4PDT 12 VDC 185 ohm coil, 2 A 29 VDC cont; w/ socket. 1.1x0.7x1.3; #TF154-CC, $2.

P&B #AKC7DY DPST n.o. 24 VDC coil; contacts 120/240 V 10/ 5A. Metal cover w/ lugs. 1.5x3x2.3; 1lb. NEW, $2.95

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DUAL DC COIL each 3PST; one 24 V, other 48 V. PC-mt. 2.8x1.5x1.3; #116-2601, $2.50

Stepper Relays

ROTARY STEPPING SWITCH 115 V 60 Hz ratchet-type that can be modified to take upto seventeen contacts with electric reset. 4.2x3.2x2.5, 2 lbs sh. #SS-109216, $3.75

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LEDEX 28 VDC SOLENOID, 8-position 45* stroke. Start torque: 5 lb-in @ 35 watts (15 lb-in holding) cont-duty; 32 lb-in 700 W 1/20 duty. 7S-size 2.8" dia x1.9" W; 1/2x3/8" dia shaft. 4 lbs. #S-8210-025, UNUSED, $4.95

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1.8x 3x1.8; #26S20/2054, used, $4.

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MIDTEX DPDT 20 AMP 120/ 240 VAC or I0 A 480/600 VAC; plastic case w/ mount tabs. #187-321200, NEW, $3.50

P&B 4PDT TIME DELAY RELAY, 24 VDC 5 amp contacts. Adjusts 1.0-45 sec with 15-turn pot, polarity protect. 1.6x1.3x0.8 #R12-30-24-X4-EI, NEW $9.95

CATALOG STOCK NO.		Page No.	Quantity	DESCRIPTION	Price Each		Total Price Add This Column		Do Not Use

R-390A Receiver AS-IS

We just bought large stock of R-390A 0.5-32 MHz receivers that look "rough" after outdoor government storage. All are without covers, meters, 3TF7 RT510 ballast, ID plate, tube shields and possibly other unidentified minor parts. All modules are present. These do clean-up and can be restored with some effort or use as source for spare parts. See page 6 of WS-97-1Catalog for further info about R-390A. 85 lbs sh. USED-"AS-IS", $125.00

W-J FET AMPLIFIER

WATKINS-JOHNSON 5310-35 LOW-NOISE FET AMP, Galium (Ga) Arsenic (As) type for 7.0 to 12.4 GHz. Amplitude flatness 3 db max. Gain: 37-41 db. VSWR 2.3:1 max. Noise figure 9 db max. SMA input output connections. Requires 115 VAC 60 Hz; 12x2x2, 4 lbs. UNUSED, $75

Radiac Set

AN/PDR-63 RADIAC SET, small modular unit, IM-226 high range module measures gamma 0-10-100 -1000 rad/hour. Low range module DT-507 connects by cable and detects 0-1-10-100-1000 mrad/hr. Separate skin dose probe DT-508 simulates human skin radiation absorption indicated 0-500-5000 rad/hr. Requires four AA batteries (not supplied). PP-6597 charger for AA nicads from 115 VAC or 24 VDC input. Also includes8.6x12x8.5; o/a 15 lbs sh. USED, $175.00

Recharge Battery Pack

LEAD-ACID RECHARGEABLE BATTERY PACK with CHARGER, consists of two BB-490 military batteries each rated 24 VDC (2x 12 VDC) 1.8 Amp-Hrs @ 0.35 amps; 1990 or later date codes. AM5-H6 charger fits on top of BB-490 or similar batteries and shows "charging" or "ready" on LED indicators. MPS-CH2 charger supply output 16 VDC 1.5 A from 115 V 60 Hz input. BB-490 used in PRC-104-117, etc radios; 4.3x5x2.5. Kit 9 lbs sh. NEW, $12.95

Doublet Insulator

IL-4 /GRA-4 INSULATOR, used at center of doublet antenna; has two wing-nut terminals for wire, one N connection and tab for guy hook. Brown bakelite material. 3.5x3x1, 2 lbs. UNUSED, $9.95

48 VDC 34 Amp Supply

PP-8097 SWITCHING POWER SUPPLY designed to power FET-type power amplifier used with RT-1512/GRC-215 exciter. Also +/-15 VDC 1 A output, 6" dia 16/32 VDC fan; On-Off switch, two connections to P.A. and one Input; mating plugs not available. No further info. Requires 110/220 VAC 50-60 Hz; 0x19.5x17.5, 100 lbs sh. USED-excellent, $100.00

Eimac PA Tubes

JAN-Boxed Eimac-made tubes:
4-400A/8438, 400 W plate AF-RF amp-modulator; 5 V 15 A htr. $115.
4CX5000J, 5 KW tube @ 30 MHz used in variety of power amps; 7.5 V 100 A heater, 7500 V plate. 8.5"Hx5" dia, 13 lbs. UNUSED, $650.
8295A (=PL172) as in TMC 1 KW PA's; 6 V 8.2 A heater, 2500 V plate. 5.1"Hx4"dia. UNUSED, $350.

TEST EQUIPMENT

Hewlett-Packard, Tektronix & others; REPARABLE:
HP-141T /8552A /8555A SPECTRUM ANALYZER SET, 10 MHz to 18 GHz, 75 lbs sh. $1750.00
182T/8557A SPECTRUM ANALYZER, 0.1 to 350 MHz; log cal -117-+20 dB. ~~$1250~~ $995.
214B PULSE GENERATOR, "like new"~~$1500~~ 1200
419A DC NULL METER, 3 uv-1 KV, $125.
432B DIGITAL PWR METER no therm. ~~$350~~. $295
1200B SCOPE, DC-500 KHz dual trace, $195.
1720A OSCILLOSCOPE, dual trace DC to 275 MHz; 6x10 cm display. Used-CHECKED, $595.
3456A INTEGRATING DVM, ~~$600~~. $450.
3490A 5-DIGIT MULTIMETER, ~~$250~~ $195.
4815A RF VECTOR IMPEDANCE METER, "probe and read" measurement 0.5-108 MHz, $695.
5180A WAVEFORM RECORDER, ~~$1795~~. $1550.
8005B PULSE GENERATOR, dual +/-10 V, $210.
8080A PULSE GENERATOR MAINFRAME with 8081A rate generator, 8084A word generator, two 8093A 1 GHz amp, ~~$1250~~. $995.
8403A MODULATOR CONTROL w/8732B, 8733B or 8734B PIN modulators, ~~$295~~. $265.
8414A POLAR DISPLAY, $250.
8614A RF GENERATOR, 800-2400 MHz, ~~$350~~ $300.
8660B RF GENERATOR w/86602A 1-1300 MHz & 86633B AM/phase-lock FM, ~~$1095~~. $1600.
8743A REFLECTION TEST, 2-12.4 GHz, $295.

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FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases & manual, ~~$1695~~. $1400.
FLUKE 332D/AB DC CALIBRATOR, ~~$795~~ $595.
335D DC VOLTAGE STANDARD 1 uv-1K V, $645.
1953A FREQ-COUNTER/TIMER to 520 MHz, $210.
GENERAL RADIO 1644A MEGOHM BRIDGE, $425.
1608A IMPEDANCE BRIDGE, C-R-L-D-Q-G, $495.
1633A INCREMENT INDUCTANCE BRIDGE, $850.
1650B IMPEDANCE BRIDGE f/C, R, L, D, Q. $350.
LEEDS & NORTHROP 2665 Ayrton Box, $65.
4385 Shunt Box for K-Series, 0.075 to 15 A, $65.
4735-S Wheatstone Bridge, 0.01-1111M ohm, $200.
4754 AC-DC Decade Resistor, 0.001-10 scales $75
4755 AC-DC Decade Resistor, 0.01-100 scales $75
4756 AC-DC Decade Resistor, 1-10K scales, $75
7553-K3 Potentiometer/U-Voltmtr, 0-1.6 V, $195
7555-K5 Potentiometer/U-Voltmtr, -5 uv-1.6 V $395
7592 Volt Box for K-Series, 3 to 750 V, $65.
8691-2 Millivolt Potentiometer, 0-1110 mV, $165.
MARCONI TF2015 RF GEN 512 MHz AM-FM, $550.
2300B AM/FM MODULATION METER, ~~$595~~. $450.
MILITARY TS-488A X-BAND ECHO BOX, $400.
ROCKLAND 5600 SYNTHESZER, 0.1-160 MHz $400.
RACAL 9303 DIGITAL RF LEVEL METER, 9 ranges 300 uV to 3 V; 100 KHz-2 GHz. ~~$495~~. $325.
WAVETEK 750 DIGITAL PHASE METER, ~~$350~~. $275
2001 SWEEP GENERATOR, 1-1400 MHz, $595.

Spectrum Analyzer

TEKTRONIX 491 SPECTRUM ANALYZER, portable unit with 8x10 cm CRT display covers 10 MHz to 12.4 GHz; up to 40 GHz using external mixers (optional). Resolution 1 KHz to 100 KHz, coupled with calibrated dispersion positions but separately switchable. Sensitivity > 100 dbm to 8.2 GHz. IF attenuation: 51 db using toggles 1-2-4-8-16-20 db. Sweep: 10 us to 0.5s/ div in 15 steps. Dispersion: 1 KHz to 10 MHz/ div 1-2-5 sequence using 1 KHz & 1 MHz ranges. Requires 90-136/180-272 VAC 48-440 Hz. 7x12.5 x17.5, 36 lbs sh. USED-REPARABLE with output, $1195.00 MANUAL, partial repro, $25.00

+ WRITE for list available mixers & accessories! +

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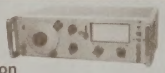
TEK 7L13 SPECTRUM ANALYZER PLUG-IN, covers 1 KHz to 1.8 GHz range when used with 7000-Series scopes from 7603/ USM-281C and up. Features CRT readout of center frequency, 30 Hz-3 MHz resolution bandwidth, and automatic phase-lock. 5x8x14, 20 lbs sh. USED-reparable w/output, $1750.00

H-P Test Equip Sale



HEWLETT-PACKARD 334A DISTORTION ANALYZER, Auto-Null feature speeds up measurement of total distortion 0.1%-100 % in 7 ranges over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 Khz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uv to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5 x15.3, 24 lbs sh. USED-CHECKED w/manual, ~~$495~~. $275.

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HP-201C AUDIO OSCILLATOR, 20 Hz to 20 KHz in three decade ranges; +/-2% stability. High output of 3 watts (42 V) intp 600 ohms; 50 V max no load. Distortion <0.5% 50 Hz-20 KHz @ 1 W, <1% 3 W. Attenuator 0-40 DB in 10 DB steps. Requires 115/230 VAC 50-60 Hz; 7.5x11.5 x12.5, 22 lbs sh. USED-CHECKED w/book, $119.50

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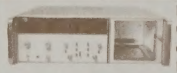
HP-400GL ANALOG AC VOLTMETER, ranges 0.1 to 1000 V-rms in 8 decade steps; -80 to +60 db in 10 db steps. Response 20 Hz-4 Mhz; output 1 Vrms open circuit. Input im-pedance 10 megohms. Requires 115/230 VAC 48-440 Hz; 6.3x5.x11, 9 lbs. CHECKED w/book $149.50

500 MHz H-P Counter



HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B without any plug-in; resolution 2 ns single shot. Gate 100 nS to 1000 S in 11 decade steps. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x16.8x x19.5, 42 lb sh. USED-reparable w/output, $250.

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HP-5245L COUNTER, 7-digit predecessor of 5345A; measures upto 50 MHz without plug-ins. 100 mv sensitivity; gate 1 usec to 10 sec in decade steps. Units at least "test" count. 5.3x16.8 x18.3, 34 lbs sh. USED-REPARABLE without plug-in, $69.50
HP-5245 with 5253B 50-500 MHz plug-in, $135.00
MANUAL, partial-repro, $20 w/set purchase.

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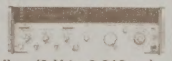

HP-8640B RF GENERATOR, 0.5 - 512 MHz AM-FM-Pulse in 11 bands read on 7-digit display. Output +19 to -145 dbm (2 V to 0.013 uV); phase-locked FM. W/ opt 003 =reverse power protect. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x 16.8 x18.8, 53 lbs. USED-CHECKED w/book, $1395.

AM-FM Generator

WAVETEK 3000-200 SIGNAL GENRATOR/ DEVIATION METER, synthesized 1 to 512 MHz AM-FM-CW read on 6-digit lever indicator switches; 1 KHz resolution. Output +13 to -137 dBm (1 V to 0.03 uV). AM-FM Modulation 400 or 1000 Hz internal; DC to 20 KHz external. FM deviation meter functions over 30 to 500 MHz. Deviation ranges 0 to +/- 5 & +/-50 KHz. Response 100 Hz-8 KHz. Input 50 ohms; N connections. Requires 115/230 VAC 50-400 Hz. 6x12x15, 28 lbs sh. USED-checked, $795.00 MANUAL for Wavetek 3000-200, partial repro, $25.

Resistance Bridge

ZM-16 DECADE RESISTANCE BRIDGE, portable unit has 9-decades from X0.1 thru X10 MEG or 0.1 ohm to 111.111111 Meg-Ohm maximum; +/-1% accuracy. Red-Black terminals; 7.9x6.3x3.5 including cover, 6 lbs sh. USED, $35.00

Fair Radio Sales Co., Inc.
1016 E. EUREKA ST.
P.O. BOX 1105
Lima, Ohio 45802

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PRC-77 Backpack Radio

RT-841/PRC-77 TRANSISTORIZED BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.5 to 4.0 watts; 150 Hz squelch. Provision for presetting channels. Requires 12.5 - 15 VDC 800 MA supplied by BA-4386 battery. Uses same accessories as PRC-25; 4x11x14, 18 lbs. USED-complete, $400.00

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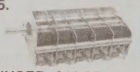
MANUAL for RT-841/PRC-77, partial repro. $20.
AT-892/PRC-25 RIBBON ANTENNA, used, $12.00
AT-271/PRC 7.5' SECTIONAL ANTENNA, used, $12.
AB-591/PRC RUBBER BASE for AT-271, used, $6.
CW-503/PRC ACCESSORY BAG, used, $6.00
H-250 HANDSET or = for PRC-77, USED, $17.00
OPERATOR'S MANUAL f/ PRC-77 & AM-2060, $10.

IN-4D Indicator

BENDIX IN-4D LEFT-RIGHT INDICATOR, 3" dia WW-2 vintage instrument shows wing-tip position relative to ground; requires 24 VDC. 2 lbs sh. UNUSED, $15.00

AIR CAPACITORS

#4G535, 4-gang 20-535 pf per gang 500 V; shaft 0.3"L x0.3" dia. O/a 1.9x6.8x3.3, 3 lbs. USED, $15.



#3D9402V, 5-gang 13-402 pf per gang 500 V; shaft 1.3"L x0.4" dia. O/a 2.8x7.3x3.8; 3 lbs sh. UNUSED, $16.95

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120000 MF 40 VDC computer grade capacitor; 9"Hx3" dia, 2 lbs. USED, $12 ea. 5 f/ $48. 10000 MFD 300 VDC, 9"Hx3" dia, USED $25. 5/ $100.

0-135 VDC 15 Amps

PP-1459A BATTERY CHARGER, used to charge storage batteries; produces unregulated 0-135 VDC 15 amp output from 115/230 VAC 50-60 Hz 15 amp input. Has 2.5" dia meters 0-150 VDC and 0-20 amps DC, Coarse and Fine 12-step controls, plus 115/230 V input selector switch. Input and Output each have circuit breaker; with power cord. 12x11x12, 60 lbs sh. USED, $49.50

Antenna Tuner

CA-573 ANTENNA TUNER, 1940's unit has two dual coils and two 0.02" spaced air capacitors. High-Freq. coil resonates 14-16 MHz coupled to 30-95 pf capacitor. Low-Freq. resonates 2-5.5 MHz with 40-175 pf capacitor. Both Freq. controls have fluted knobs with 3.3" dia metal skirts with 180 degree 0-100 scales. Tuner enclosed in aluminum all-weather box with two 3.8"L stand-off insulators on rear. 11x13.5x11.5, 18 lbs sh. UNUSED, $35.00

800 - 900 MHz Modules

MODULES & COMPONENTS from airline phone system operating in 800-900 MHz range:

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#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each Motorola filter 0850E05140 and 0895E05141, M/A-COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs. $35.00

#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JL E-PROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lbs sh. $25.00

#AFF-PS MODULE, powered both above modules; has switching supplies Calex #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out); two RO Assoc 220-400 VDC input uVERTERs with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heatsinks, capacitors, etc. 11x6.5x3.3, 7 lbs sh. $15.00

H-P RLC Bridge

HEWLETT-PACKARD 4260A UNIVERSAL BRIDGE, has seven full scale ranges permitting measurements of resistance (R) 10 milliohms to 10 Megohms, inductance (L) 1 uH to 1000 H, and capacitance (C) 1 pf to 1000 uf. Also two ranges D (0.001-0.12 & 0.05-20) and Q (0.05-20 & 8-1000). Has D-Q Vernier scale, Range select, 4-digit mechanical CRL indicator with Sensitivity control, and Function selector; also internal 1 KHz 100 mv oscillator. Requires 115/230 VAC 50-60 Hz; 6.5x7.8x11, 15 lbs sh. USED-CHECKED, $295.00

TEKTRONIX L-C METER, vacuum tube-type meter measures small reactances in series between 125 and 140 KHz. Inductance to 300 uH and capacitance to 300 pf in ranges 0-3, 10, 30, 100, 300 read on 4.5" panel meter. Useful in measuring small capacitances in presence of enviornmental strays like vacuum tube interelectrode capacitances. Wired for 105-120 VAC 50-60 Hz power; 210-250 V is possible. 10.6x 7x11.1, 18 lbs sh. USED-REPARABLE w/book, $95.

12 VDC Converters

POWER CONVERTER BLOCKS, draws very low "standby" power, yet capable of fast turn-on surge currents. User must supply On-Off control & input-output fusing. DC to AC CONVERTERS, 12 VDC nominal input produces 125 VAC 60 Hz output; unloaded input < 2.5 amps @ 13.6 VDC. Full load draw about 100 amps; draw proportional to load. Switching design; output modified square wave. With 4.6" sq cooling fan; 4.9x8.3x5, 5 lbs sh. Ryan mfg, NEW:
#DCAC-12D125-4R, 4.2 amp regulated out, $299.
#DCAC-12D125-10NR, 10 A unregulated out, $295.

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DC to DC SUPPLY, 12 VDC input produces 125 VDC 750 watts cont., 1250 W surge; very low standby current. Use for large AC/DC power tools. 4.9x8.3x5, 5 lbs sh. #DC-12V125-10, $250.00
#DC-12V125-4, 125 VDC 200 W cont./350 W surge output; no fan. 4.6x5x2.2, 3 lbs sh. $55.00

PSS-11 Detector

AN/PSS-11 METAL DETECTOR (Polan P153) transistorized unit uses 2500 Hz signal in mutual inductance bridge circuit to detect metal objects that cause an imbalance in the 9"x11" search head's magnetic field; disturbance is heard in operator's headset. Handle adjusts 29"-57" L. Also control pack w/canvas bag & 7.3x24.5x16.5 transit case. Requires 7.3 to 10.8 VDC battery (BA-1389 5.1"Lx0.6" dia) 35 lbs sh. USED-not tested, $75.00; MANUAL, repro, $10.

Blade Antenna

UHF/XPONDER AIRCRAFT BLADE ANTENNA for 800 to 900 MHz range. Type N connection; 5.8x6x2.2, 2 lbs sh. #C1320-25-2, UNUSED, $22.00

Diode Heatsink

DIODE HEATSINK ASSEMBLY, six 1N3085 100 piv 150 amp diodes on 1.9x9.3x4.8 heatsink, 4 lbs sh.
#DHS6-3085, $24.95
#DHS6-5A10P, with six Sarkes ST5A10P 100 piv 50 amp diodes; heatsink 2.6x8x4.5, $12.95